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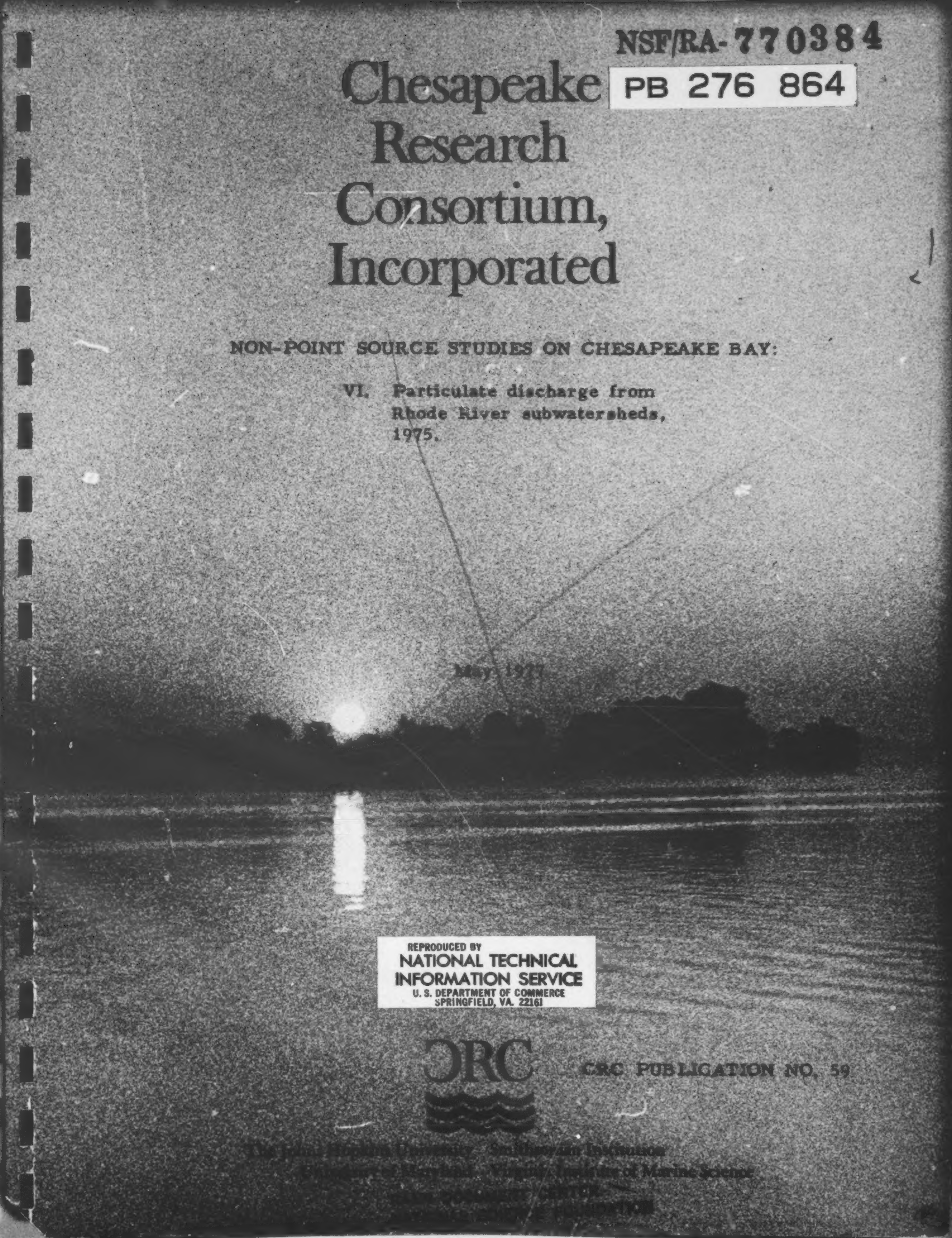

NON-POINT SOURCE STUDIES ON CHESAPEAKE BAY:

VI. Particulate discharge from Rhode River subwatersheds, 1975.

May 1977

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16. Abstracts

During Part VI of this project, aliquots of composited flow-integrated samples of water passing through eight v-notch weirs located on different subwatersheds of the Rhode River, Maryland were analyzed for total and mineral solids. The difference between total solids and mineral particles was allocated to the organic phase. Regression equations of solids discharge on water discharge showed that a second order equation was best for prediction of the concentrations of flow-integrated samples, in general explaining more than 80 percent of the variation in sediment discharge. Concentrations varied over three orders of magnitude, from a low of less than 1 mg/l of total solids to 1290 mg/l. Precipitation was 81 percent of average in 1974; 132 percent in 1975, giving much higher water discharge in 1975. Most of the water discharge occurs during spring and fall. It is estimated that about 30 percent of the precipitation is discharged past the weirs by the streams. The discharge per hectare of total solids ranged from a low of 1.3 Kg/ha to nearly 304 Kg/ha on a seasonal basis. Application of the derived rates to part of the data used in their generation indicated that such an approach cannot be used to predict sediment discharge, regionally or locally. Applied to the entire Rhode River watershed, negative discharges resulted during two seasons and on an annual basis.

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VI. Particulate discharge from Rhode River subwatersheds, 1975.

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ABSTRACT

Aliquots of composited flow-integrated samples of water passing through eight V-notch weirs located on different subwatersheds of the Rhode River, Maryland were analyzed for total and mineral solids during the grant year 1975 (2 December 1974 through 1 December 1975). The difference between total solids and mineral particles was allocated to the organic phase. At times of low flow, insufficient flow-integrated volume was available for all analyses and spot samples were substituted. X-ray diffractograms were run on large volume samples.

Regression equations of solids discharge on water discharge showed that a second order equation was best for prediction of the concentrations of flow-integrated samples, in general explaining better than 80% of the variation in sediment discharge. The second-order equations were not good predictors at times of low water discharge, being supplanted by a linear fit of log transforms. In all cases, the estimates were less than the true values. A ratio of sediment discharge to water discharge has been used to estimate the missing concentrations.

Sample storage of up to three weeks has no significant effect on concentrations of total, mineral, or organic solids.

Concentrations varied over three orders of magnitude, from a low of less than 1 mg/l of total solids to 1290 mg/l. This is slightly more than 1974. Average weekly concentrations were higher in 1975 than in 1974. Organic matter ranged from none to over 69% of the total material, generally contributing a higher percentage at times of low stream flow.

Precipitation was 81% of average in 1974; 132% in 1975, giving much higher water discharge in 1975. Precipitation was lowest in the winter

although water discharge was higher than in the summer. Most of the water discharge occurs during the spring and fall. It is estimated that about 30% of the precipitation is discharged past the weirs by the streams.

Discharge of solids was much lower in 1974 than 1975, due primarily to a dry summer and fall in the former year. Winter and spring seasons were approximately the same. The discharge of solids in 1974 is estimated to be between 25 and 38% of that during 1975, while water discharge was between 47 and 56%.

The discharge per hectare of total solids ranged from a low of 1.3 kg/ha to nearly 304 kg/ha on a seasonal basis. Annual values ranged from 54 kg/ha to nearly 677 kg/ha.

Area yield rates derived from the 1974 data appeared reasonable and intuitively could be interpreted. Derivation of such rates, based on the 1975 data, resulted in values that were difficult, if not impossible, to interpret. Many values were negative, indicating that some land uses acted as sinks, a result that was difficult to interpret for any upland area.

Application of the derived rates to part of the data used in their generation indicated that such an approach cannot be used to predict sediment discharge, regionally or even locally. Applied to the entire Rhode River watershed, negative discharges resulted during two seasons and on an annual basis.

PROJECT OBJECTIVES

1. To determine the load of monitored streams discharging into the Rhode River.

2. Determine yield of solids per unit area for different land use categories.

3. Determine load of solids discharged into the receiving waters.

INTRODUCTION

The discharge of sediment from uplands into streams and subsequent transport of part of this material into estuaries or oceans are expected processes. Such natural processes are beneficial and necessary for transport of mineral nutrients and organic material to marginal marine areas and, hence, to the ocean. Interference with and interruption of such processes are generally not beneficial. An extreme case of such interference is exemplified by various control projects along the course of the Nile whose construction have caused a drastic drop in sardine fisheries in the Eastern Mediterranean (George, 1972; Aleem, 1972), non-replenishment of the soil in the delta area (Worthington, 1972), and erosion of the delta front (Kassas, 1972). Interruption of the discharge of sediment from uplands will cause increased erosion of stream channels and banks because streams have certain capacities for transport of detritus. Loss of an upland source will transfer the source of detritus to the stream channels and banks.

Problems occur also when the mass of sediment discharged becomes so great that it causes excessive siltation of harbors, clogs fluvial waterways, overwhelms benthic communities, and degrades the esthetic value of the waters. This generally occurs when the natural vegetative cover is stripped from the uplands with no attendant control practices.

Wolman (1967) points out that there is little sediment discharge from forested areas. The discharge increases drastically when the land is altered for agriculture and reaches greatest discharge from areas undergoing urbanization, the amount of sediment discharged is drastically reduced and the character drastically changed. Guy (1964) listed rainfall-runoff, temperature, and wind as active forces affecting erosion and transportation of sediment from the land surface. As passive forces, he lists soil character, topography, and soil cover. Each of these factors must be considered in developing a model for sediment discharge to a receiving body of water, although on a regional basis it is often difficult to evaluate the effect of each one.

Equations have been developed for discharge of sediment to streams and/or transported by streams. These equations may be deterministic (Foster et al 1973), statistical (Guy, 1964), or simulation (Johanson and Leytham, in press). Guy notes the difficulty of transferring statistical equations from one stream to another.

In addition to the effects caused solely by increased sediment discharge, suspended particulate matter, including particulate organic matter, is quite often associated with chemical species and bacteria commonly considered as pollutants or indicative of pollution. The association of pesticides with organic matter and mineral particles is well documented (Bailey et al, 1974; Duke, 1969; Pfister et al, 1969; Pionke and Chester, 1973; Walsh, 1972; Wu and Mick, in press). Likewise, trace metals are often adsorbed on surfaces rather than being in the dissolved form in water (Angino et al, 1972; Alexander and Corcoran, 1967; Wayman, 1967).

Predictive models are necessary for the management of river basins and the associated receiving waters. Such models must cover a variety of substances and their interactions. Data upon which to base such models are generally lacking. There even seems to be a lack of consensus as to what variables are necessary in the development of such a model on a regional basis, given the all important constraints of money and time.

This paper deals with the particulate solid discharge and loading of streams discharging into the Rhode River, a tributary on the western side of

Chesapeake Bay. The time period covered is from 2 December 1974 through 1 December 1975, the end of the grant period. A previous report was submitted covering the period of 1 January, 1974 through 1 December, 1974.

The volume of data increases as time progresses and new weirs are installed. Five streams were monitored at the start of the grant year. At the end (December, 1975), eight weirs were operational. Obviously, the usefulness to the development of predictive models increases as the volume of data increases, as the techniques are refined, and as the equipment becomes more dependable.

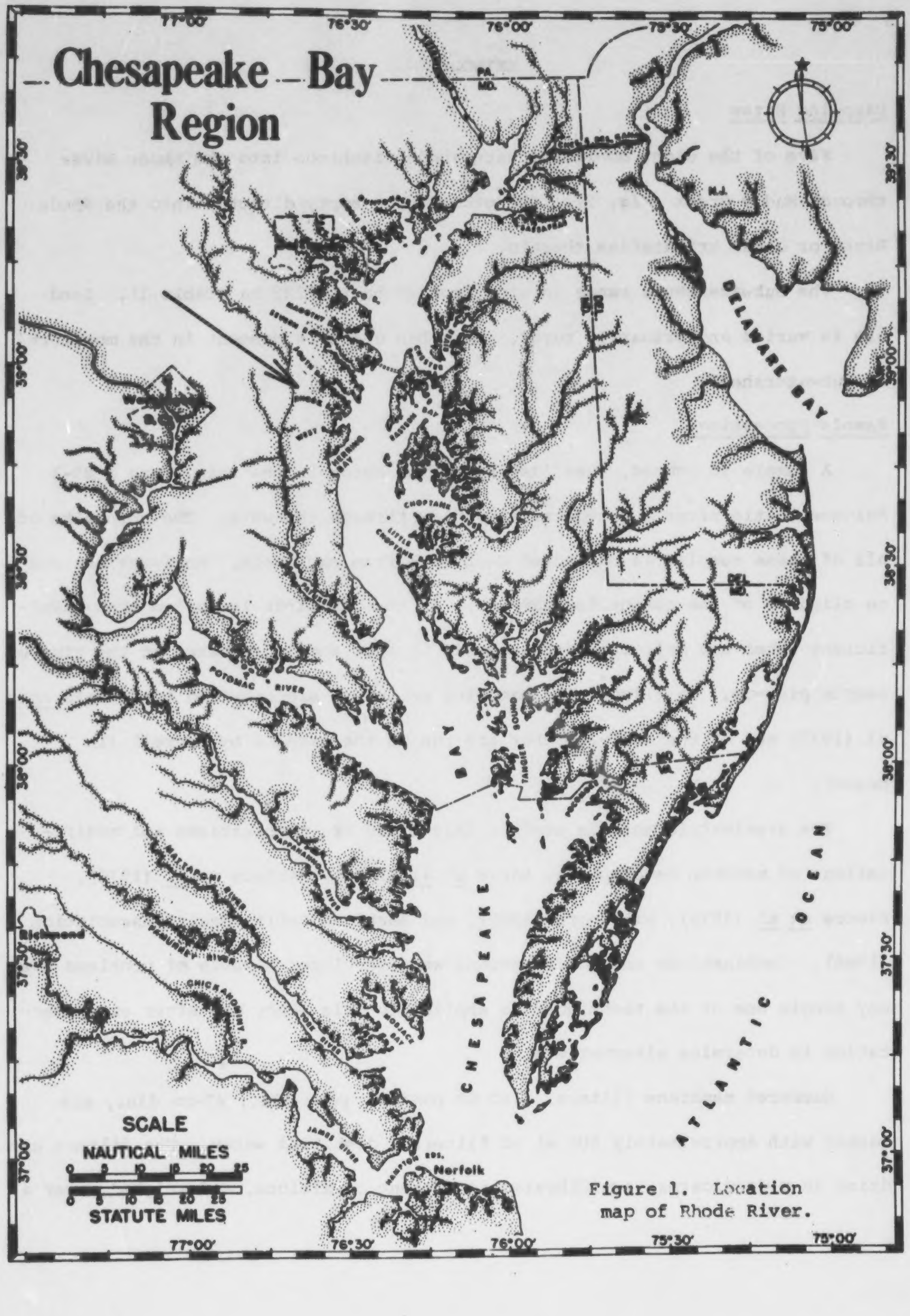

Chesapeake Bay
Region
77°00'
76°30'
76°00'
75°30'
75°00'
39°30'
39°00'
38°30'
38°00'
37°30'
37°00'
PA.
MD.
N.J.
DELAWARE BAY
DEL.
Washington
D.C.
POTOMAC RIVER
CHOPTANK
TANGIER SOUND
CHESAPEAKE
BAY
ATLANTIC
OCEAN
RAPPAHANNOCK RIVER
MATTAPONI RIVER
PAMUNKEY RIVER
CHICKAHOMINY R.
YORK RIVER
MOBJACK BAY
JAMES RIVER
Richmond
Norfolk
SCALE
NAUTICAL MILES
0 5 10 15 20 25
0 5 10 15 20 25
STATUTE MILES

Figure 1. Location map of Rhode River.

DESCRIPTION OF AREA

The Rhode River is a tidal tributary to Chesapeake Bay, located on the western shore, south of Annapolis, Maryland (Fig. 1). The water area of the river is about 484 ha and receives water from 3332 ha of the watershed.

The major influx of fresh water is via of Muddy Creek with subordinate amounts from the other tributaries. Rainfall in the area averages 100 cm/yr (Correll et al, 1975).

METHODS

Sampling Sites

Five of the eight monitored watersheds discharge into the Rhode River through Muddy Creek (Fig. 2). The other three empty directly into the Rhode River or other tributaries thereto.

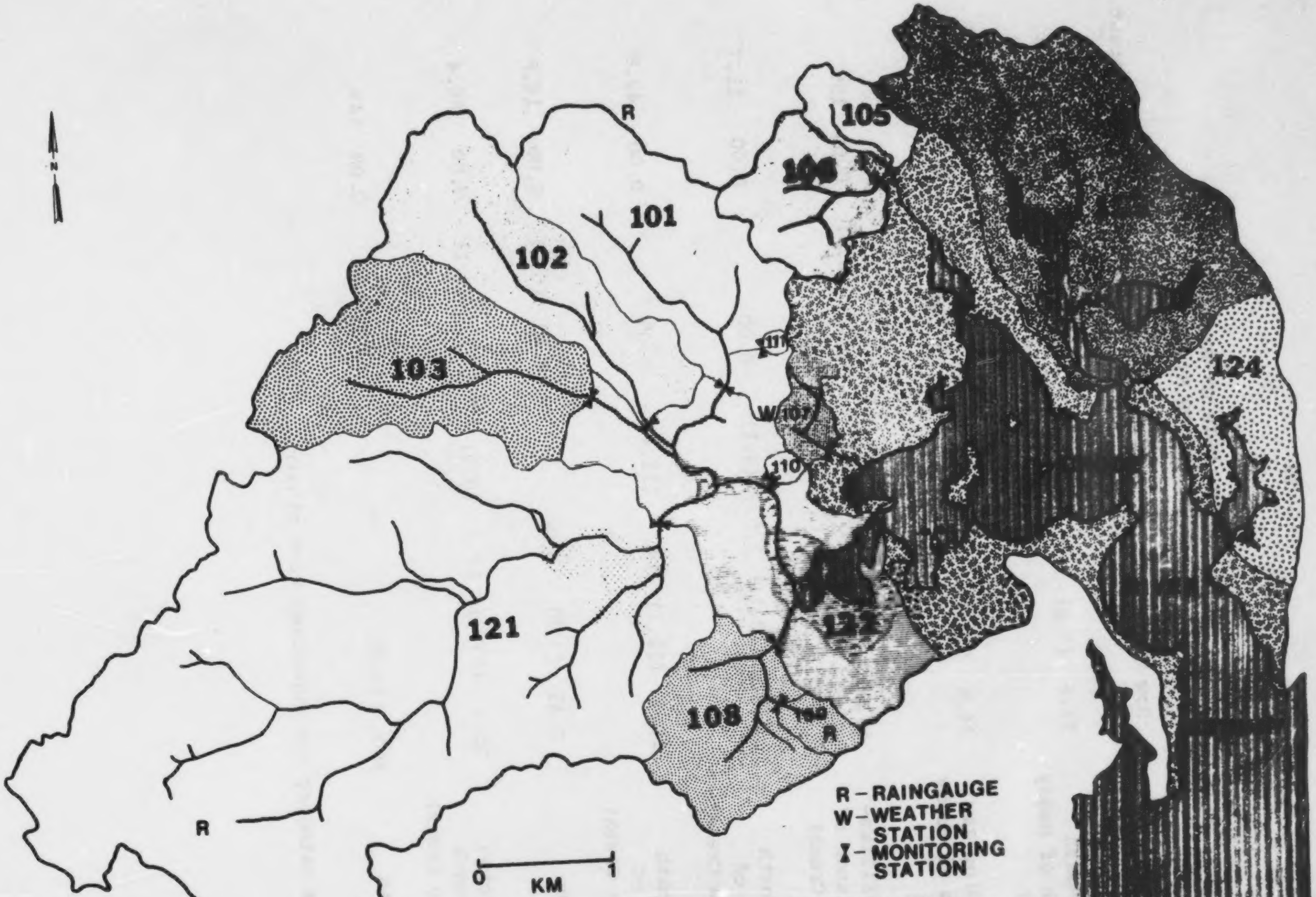
The subwatersheds range in size from 29 ha to 1229 ha (Table 1). Land use is varied and primarily rural. No urban usage is present in the monitoreed subwatersheds.

Sample Processing

A sample is pumped, from just below the notch in the weir, into a 20-l Nalgene bottle after a pre-determined flow through the weir. The composite of all of these samples is collected each week from each weir. Analyses are run on aliquots of the composited samples. If the discharge is so low that insufficient water was collected for analysis, a spot sample is taken at the time of sample pick-up. Details of the sampling procedure are provided by Correll *et al* (1975) and of the analyses that are run on the samples by Correll (in press).

The gravimetric methods used in this study are combinations and modifications of methods developed by Banse *et al* (1963), Manheim *et al* (1970), Pierce *et al* (1972), Millipore (1966), and American Public Health Association (1966). Combinations and modifications were developed because of problems with any single one of the techniques as applied to this study and after experimentation to determine alternatives.

Numbered membrane filters, 0.45 μm nominal pore dia., 47-mm dia., are washed with approximately 500 ml of filtered, distilled water. The filters are dried in a dessicator, equilibrated to ambient conditions, and weighed, over a


N
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124
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122
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R
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R - RAINGAUGE
W - WEATHER STATION
I - MONITORING STATION
0
KM
1

RHODE RIVER DRAINAGE BASINS

Figure 2, Areas of subwatersheds and land uses given in Table I.

TABLE 1. LAND USE ANALYSIS OF RHODE RIVER ESTUARY WATERSHEDS UNDER STUDY

Basin	Row Crops		Hay Fields		Upland wet areas		Tidal marshes	Forest
101 (North Branch of Muddy Creek)	21.6	(9.6)	0.72	(0.3)	2.40	(1.1)	0.00	85.3
102 (Blue Jay Branch of Muddy Creek)	34.8	(18.1)	6.68	(3.5)	0.97	(0.5)	0.00	90.6
103 (Williamson Branch of Muddy Creek)	5.09	(2.0)	10.4	(4.1)	0.68	(0.3)	0.00	159
105 (North Branch of Sellman Creek)	4.91	(13.1)	1.52	(4.1)	0.00		0.00	11.7
106 (South Branch of Sellman Creek)	12.1	(12.7)	14.7	(15.4)	0.00		0.00	42.8
107 (Fox Creek)	2.45	(3.5)	0.00		0.10	(6.7)	0.00	16.8
108 (Steinlein Branch of Muddy Creek)	35.2	(23.5)	14.2	(9.5)	1.36	(9.1)	0.00	58.4
121 (Main	260	(21.2)	**		59.0	(4.8)	0.00	549

** This category not separated from others.

TABLE 1. LAND USE ANALYSIS OF RHODE RIVER ESTUARY WATERSHEDS UNDER STUDY

Hectares in each land use category[1]

	Old Fields		Pasture		Feed Lots[7]	Residential and others		Total area
(37.7)	41.6	(18.4)	60.7	(26.9)	0.000	13.6	(6.0)	226
(47.2)	13.0	(6.8)	34.8	(18.1)	0.036	10.8	(5.6)	192
(62.8)	35.6	(14.1)	31.4	(12.4)	0.062	11.6	(4.6)	253
(31.2)	18.4	(49.1)	0.80	(2.1)	0.000	0.16	(0.4)	37.5
(44.9)	4.77	(5.0)	19.6	(20.7)	0.100	1.22	(1.3)	95.3
(59.6)	4.67	(16.6)	2.54	(9.0)	0.000	1.56	(5.5)	28.2
(38.9)	20.2	(13.5)	16.2	(10.8)	0.028	4.82	(3.2)	150
(44.7)	157	(12.8)	109	(8.8)	**	94.8	(7.7)	1229.0

polonium static eliminator, to 0.01 mg.

Porcelain crucibles, used in firing, are washed in detergent, soaked overnight in chromic acid cleaning solution, rinsed, and air-dried. They are then fired to constant weight, equilibrated, and weighted to 0.01 mg.

An aliquot of 200-250 ml is taken from each well-shaken composite sample. The aliquots are stored, under refrigeration, until filtered, usually less than three weeks. The aliquot volume is accurately measured and all passed through a membrane filter. The filter is dried over dessicant, equilibrated to laboratory atmosphere, and weighed. The weight gain of the filter represents the total mass of particulate in the filtered volume. This is standardized to mg/l.

Only every second filter is used for filtration. The remaining filters as used as controls due to weight gain/loss of the filters due to humidity changes in the laboratory. The weight change of the control filter is used to correct the weight change of the sample filter.

The sample filter is placed in a pre-weighed crucible and fired for one hour at 1000° C. Weight gain of the crucible represents the mass of mineral matter in the sample. The difference between total mass and the mineral phase represents combustible organic matter. Prior to 9 June, 1975, the organic matter was destroyed by oxidation for 16 hours in 30% H_2O_2.

A larger split of the composited sample, 4-ℓ if available, or a spot sample is filtered through 142-mm dia., 0.45 μm pore membrane filter. The filters are dissolved in multiple washings of acetone-ethanol-distilled water; the organics removed by soaking in 30% H_2O_2; and the amorphous iron removed by dithionite extraction (Jackson, 1969).

The remaining mineral matter is placed on a one-inch glass slide and subjected to X-ray diffractometry for identification of the minerals present in the sample. Integrated intensities of the major diffraction peaks are divided by the sum of the intensities to give a relative percent of total diffracted intensity for each mineral (Carroll, 1970). These data are not reported as percent of minerals present because of conversion problems (Pierce and Siegel, 1973).

Estimation of missing values

Both water discharge and composited flow-integrated samples are necessary for calculation of sediment discharge. Equipment malfunctions create missing data points for water discharge. During periods of low water flow there is insufficient sample for a flow-integrated sample. Spot samples are substituted for the integrated samples. Spot samples are poor estimators of weekly average concentrations (Guy, 1965; Pierce and Dulong, in press). It is necessary, therefore, to derive estimated values for the missing values.

Most commonly, sediment discharge (or load) is linearly regressed on water discharge (or log transformations are used). In a few cases, curvilinear regression is used. We have developed both linear and second-order regression equations (and log transforms) for three weirs (101, 102, 108) on an annual and seasonal basis. The r^2 values indicate that the second order equation is the best predictor except for the winter season (Table 2). The data for the winter season has considerable scatter and none of the equations explains more than 80 percent of the variation in the y-variable.

Most of the missing composited samples are at times of low water discharge. We evaluated the ability of all four types of equations (both annual and seasonal) by using eleven of the lowest flow values, for which composited samples were available, in the equations.

TABLE 2. r^2 value for regression equations of sediment discharge against water discharge. *= equation explaining greatest percentage of variation.

	WEIR		
ANNUAL	101	102	108
Linear	.8157	.8407	.6110
Log	.6158	.2970	.4995
2nd Order	.9553*	.9562*	.7114*
Log	.6418	.5516	.5402
WINTER			
Linear	.2005	.2007	.1379
Log	.4850	.7708	.5446
2nd Order	.2187	.2357	.2551
Log	.6257*	.7899*	.5739*
SPRING	.8013	.8834	.8984
Linear	.8013	.8834	.8984
Log	.8577	.8665	.7688
2nd Order	.9941*	.9884*	.9331*
Log	.9073	.9202	.7932
SUMMER			
Linear	.8538	.8553	.7752
Log	.7236	.7242	.7240
2nd Order	.8897*	.8909*	.9446*
Log	.7240	.7322	.7333
FALL			
Linear	.9337	.9212	.7088
Log	.8308	.1089	.8371
2nd Order	.9980*	.9964*	.7582
Log	.8842	.0777	.8374*

The linear-log transform equation best predicted the true value nine of the eleven instances (5 from the annual equation; 4 from seasonal equations). The second order log equation was the best predictor twice. The best prediction was two to three times the true sediment discharge at lowest flow rates. At higher rates of water discharge, the best prediction was as much as one-half the true sediment discharge. Although the second order equation explains most of the variation, it did not predict true values at low flow rates.

Because most of the missing samples are at times of low water discharge, we determined the time periods during which no storm runoff occurred, by examining the analog strip chart records. Sediment discharge, during periods when no rise occurred on the hydrograph, was regressed on water discharge during these periods. Only linear regression was used. The r^2 values ranged from 0.22 to 0.72, not as good as using all values.

We have chosen to use the ratio between average seasonal sediment discharge during weeks when no composited sample was taken. We feel that this closer approximates the true value than the regression equations. Additional data, from subsequent years, may further refine the equations for accurate prediction.

Effect of Sample Storage on Concentration Values

The composited, flow-integrated samples supposedly are representative of water that has passed the weir over a period of one week. Thus, at the time of pick-up from the weir site, part of the sample may have been stored for approximately one week.

Aliquots are taken from each composited sample for various analyses. These aliquots are stored until the different investigators do the respective analyses. We have little control over this part of the procedure. Much of it is dictated by logistics and techniques.

We did address the problem of the effect of storage on the samples. Two experiments were set up, where two sets of 30 samples of approximately 250 ml each from one weir basin were taken as quickly as the bottles could be filled. In the first case, 10 samples were randomly selected and 200 ml filtered upon return to the laboratory; a second 10, one week later; and the remaining 10, two weeks after acquisition. The second case was set up exactly the same as the first except that the entire sample of approximately 250 ml was filtered and the sample bottle and graduated cylinder rinsed with distilled water.

The results indicate that storage of the samples had little effect on the concentration values but use of less than the total sample did have an effect. When less than the total sample was used, there was a general decrease in the determined value of total material and both the organic and inorganic phases. Comparisons of the means of the determined concentrations for the three storage intervals were made by t-tests. These tests would reject, at the 0.05 level, the hypothesis that the three groups of samples were from the same population. When all of the sample was filtered, rather than 200 ml, there was no difference, at the 0.05 level, between the three groups of samples.

The procedure was changed in early 1976 to filter all of the water rather than a portion of the sample.

RESULTS AND DISCUSSION

Data Distribution

Interpretation of data is strongly dependent upon the reliability of the sampling and the number of missing data points that must estimated (Table 3). The missing data can be due to mechanical failure, human error, or to a flow of such low volume that integrated samples were not available. For the most part, human errors have been minimal and mechanical failures have been reduced. When the stream was not flowing no data were obtainable and as such was not counted as missing data.

The data base for water discharge has fewer gaps than that for concentration of particulate solids, Six of the eight weirs had more than 93% of the potential data. The monitoring equipment at weir 107 broke down during the fall of 1975. The start-up of the equipment at weir 121 was more difficult than that experienced at the other weirs and there is a limited data base for the weir.

Integrated samples are necessary for calculation of the mass of discharged solids. Although we obtained samples almost every week, many of these were spot samples that were representative of conditions only at the time of acquisition. They could not be used for calculation of sediment discharge. Only four weirs provided more than 80% of the data that potentially should have been available.

Weirs 101 and 108 have sufficient data to provide yearly estimates of discharge. The missing data for weir 102 are evenly spaced throughout the year and if the missing data are replaced with ratioed average values, can also be used for estimates of yearly discharge. Data for weir 103 are difficult to because much of the missing data is concentrated in the fall season. Weirs 105

TABLE 3. Distribution of data for the eight operational weirs for grant year, 1975

Weir	# weeks	Flow Data	%	Integrated Samples	%
101	52	52	100	45	87
102	52	52	100	38	73
103	51	50	98	42	82
105	47	44	94	25	53
106	47	45	96	39	83
107	51	38	75	25	49
108	52	52	100	48	92
121	34	24	71	21	62

and 106 were not completely functional until 13 January, 1975, five weeks into the grant year. Integrated samples were not received from weir 105 for several weeks in the summer and fall season.

Concentration of Suspended Solids

Concentrations of suspended particulate material spanned more than two orders of magnitude, for both total solids and mineral matter (Table 4). Maximum concentrations were greater at all weirs, except 107, in 1975 than in 1974. Maximum concentrations occurred on 23 June (day 174) or on 14 July (day 195). Rain fall records indicate nearly 2.5 cm (1 in.) of rainfall during this week. Nearly 15 cm (5.85 in.) of rain fell at the center during the week ending on day 195. The high concentrations during the summer were not unexpected. Summer and fall water discharges are either low or a response to storm events which transport large loads of sediment (Guy, 1964).

Minimum concentrations recorded during 1975 were lower than the minimum values for 1974 (Table 4). Minimum values of total solids occurred on four different days, most often in the winter. The lowest concentrations of mineral solids do not necessarily occur on the same day as the minimum values for total solids. Of the eight weirs, the minimum values of total and mineral solids coincided only on two days. Thus, at low concentrations, organic matter is an important phase of total solids.

Average concentrations were higher at all weirs in 1975 when compared to 1974. The differences in averages are not large. Average concentrations were highest at weir 107 and lowest at weir 102, repeating the pattern established in 1974.

Highest average weekly concentrations occurred during the summer months (Fig. 3, Table 5), the same season as maximum concentrations. Concentrations

Table 4. Maximum, minimum, and average concentrations of total and solids, 1974 and 1975. Julian day of occurrence in parentheses.

CONCENTRATION (mg/1)

	1974						1975					
	TOTAL		MINERAL		AVERAGE		TOTAL		MINERAL		AVERAGE	
Weir	Max	Min	Max	Min	total	mineral	Max	Min	Max	Min	total	mineral
101	678.5 (273)	14.8 (24)	563.2 (273)	11.7 (38)	63.67	53.62	1290.1 (195)	2.7 (364)	1083.3 (195)	2.1 (364)	N=52 70.28	57.19
102	111.2 (84)	4.2 (119)	18.4 (84)	3.0 (119)	25.9	22.2	139.6 (195)	0.92 (88)	109.7 (195)	0.60 (111)	N=52 26.47	20.56
103	118.2 (84)	5.9 (98)	106.7 (84)	4.1 (119)	36.7	32.4	322.3 (174)	2.4 (364)	276.0 (174)	2.0 (364)	N=49 44.20	36.03
105							347.9 (195)	3.4 (49)	290.9 (195)	1.6 (34)	N=44 47.98	39.48
106							942.6 (195)	3.9 (104)	772.3 (195)	2.8 (27)	N=45 80.41	65.27
107	1116.5 (273)	7.6 (133)	1050.6 (273)	6.0 (133)	84.33	77.18	1000.3 (195)	1.8 (6)	842.2 (195)	0.1 (34)	N=47 100.55	84.98
108	226.1 (175)	8.5 (38)	174.8 (175)	6.9 (38)	43.31	37.15	365.29 (195)	3.0 (364)	269.79 (195)	1.0 (34)	N=51 46.66	35.93
121							112.8 (195)	5.7 (258)	89.2 (195)	4.6 (147)	N=27 37.67	29.42

TABLE 5. Average weekly concentrations and discharge for 1974 and 1975. WKSTRT, WKEND = Julian day for start and end of week; AVETPC and AVETPD, average total solid concentration and discharge; AVEMPC, AVEMPD, Mineral; AVEOPC, AVEOPD, organic; AVE% OR, percent organic; AVEFLO, water discharge.

YEAR	WKSTRT	WKEND	AVETPC MG/L STDD	AVETPD KG STDD	AVEMPC MG/L STDD	AVEMPD KG STDD	AVEOPC MG/L STDD	AVEOPD KG STDD	AVE%OR STDD	AVEFLO L/WK STDD	N
74	10	17	29.8750 23.3710	357.1597 157.7785	26.0750 19.8371	314.3297 137.3436	3.8000 3.5656	42.8300 21.5097	11.8064 1.9702	16522500. 8975784.	4
74	17	24	31.2400 22.5038	238.8220 94.2245	26.0800 20.8938	189.5196 70.8114	5.1600 4.4015	49.3024 55.9157	17.8662 16.1355	10158000. 5888940.	5
74	24	31	27.3400 6.0604	329.3590 186.1772	25.3000 5.7105	303.5750 171.4783	2.0400 1.4519	25.7840 23.5041	7.5442 5.4867	12190000. 5984187.	5
74	31	38	13.2800 3.4752	108.0186 62.1973	9.6000 1.9519	81.0462 46.3890	3.6800 1.9149	26.9724 17.7711	26.2685 9.0336	8222000. 4069241.	5
74	38	45	26.9600 4.7067	240.5826 109.1174	22.6200 4.6773	206.0154 99.3946	4.3400 2.1303	34.5672 21.9481	16.2519 7.7979	9272000. 4752996.	5
74	52 WINTER	59	24.7250 4.5500	141.5510 70.9987	23.1750 4.9668	132.9180 70.1615	1.5500 .5972	8.6330 5.0422	6.6923 3.5760	5645000. 2396894.	4
74	SPRING 59	66	28.5750 4.5140	211.1937 22.7510	24.7250 3.5994	183.1592 22.1505	3.8500 1.3329	28.0345 7.5673	13.3005 3.4864	7585000. 1821913.	4
74	66	73	33.4800 7.6431	189.4168 101.6182	30.0600 6.8824	168.7188 89.4451	3.4200 1.0686	20.6980 12.2701	10.2548 2.0384	5800000. 3002641.	5
74	77	84	71.8750 28.7179	1612.8530 1233.3521	64.7500 24.6223	1449.3800 1084.4694	7.1250 4.3053	163.4730 152.1428	9.4415 2.7618	20020000. 11313720.	4
74	84	91	22.3333 6.6018	953.8167 344.1010	19.5333 5.9467	834.4467 308.6252	2.8000 .6557	119.3700 35.5355	12.6850 .7494	42533333. 5919741.	3
74	91	98	20.3500 8.5998	352.0800 226.2057	16.7250 6.9916	286.5337 176.4436	3.6250 1.7270	65.5462 49.9830	17.2243 3.2710	19412500. 10814679.	4
74	98	105	33.4250 19.5762	835.7900 644.5172	28.4750 17.8793	700.2487 565.6630	4.9500 1.7407	135.5412 86.5619	17.7822 8.1967	30412500. 17362813.	4
74	105	112	22.2250 8.6531	265.5375 193.1638	19.6500 7.6064	231.9110 166.4074	2.5750 1.3841	33.6265 28.6336	11.5006 4.0179	11015000. 5841995.	4
74	112	119	19.0000 11.6927	141.7800 100.0086	13.7000 7.8158	106.9550 80.4544	5.3000 4.1481	34.8250 22.4036	26.8985 6.4412	8975000. 4803731.	4
74	119	126	22.6750 6.7535	238.0970 29.0891	15.0000 6.1509	155.2230 31.7701	7.8750 1.5798	82.8740 17.8547	35.0916 7.3333	10920000. 1994058.	4

YEAR	WKSTRT	WKEND	AVETPC MG/L STDD	AVETPD KG STDD	AVEMPC MG/L STDD	AVEMPD KG STDD	AVEOPC MG/L STDD	AVEOPD KG STDD	AVEXOR STDD	AVEFLO L/WK STDD	N
74	126	133	24.7000	273.8952	19.3200	214.9110	5.3800	58.9842	24.4635	9470000.	5
			16.0034	214.1405	14.4833	189.9560	4.0077	51.7984	13.2297	4461973.	
74	133	140	13,3000	74,7300	9,6800	52,9422	3,6200	21,7878	27,6891	5508000.	5
			5,2583	50,7772	4,1752	37,5674	1,6115	14,9846	9,8328	2569646.	
74	140	148	40.3800	164.5998	34.0400	138.7706	6.3400	25.8290	15.6660	3822000.	5
			9.3342	102.2431	8.2549	87.6002	2.1431	16.9592	4.3000	1862329.	
74	148	154	100.9200	1373.1200	91.7400	1251.5940	9.1800	121.5260	8.1200	14960000.	5
			32.8559	820.7978	27.8747	723.6922	5.3340	108.5427	4.5860	7868799.	
	SPRING SUMMER										
74	154	161	50.1800	380.9002	44.7400	341.8936	5.4400	39.0066	10.6785	7356000.	5
			12.2838	186.0229	10.6561	167.8566	2.7446	24.8305	4.4522	3193263.	
74	161	168	92.4333	330.8470	82.2000	295.4503	10.2333	35.3967	11.8283	2960000.	3
			63.9056	359.3313	58.1098	323.6479	6.0144	35.8395	3.4221	1347479.	
74	168	175	98.2250	650.5852	76.5750	505.0772	21.6500	145.5080	24.5772	4550000.	4
			88.8403	966.9254	69.2260	746.8266	19.9320	220.3074	9.1812	3190266.	
74	175	182	44.0800	162.0018	32.8000	117.0320	11.2800	44.9698	27.1234	3731200.	5
			19.2784	123.5713	16.2216	90.6842	4.0739	34.9686	6.0642	1889211.	
74	182	189	26.7667	22.9236	17.0000	13.3475	9.7667	9.5762	33.4096	705667.	3
			16.1029	23.7008	9.3380	11.3863	8.9512	12.6941	13.9025	451287.	
74	189	196	34.4000	10.7328	16.7000	5.2104	17.7000	5.5224	51.4535	312000.	1
			.0000	.0000	.0000	.0000	.0000	.0000	.0000	.	
	SUMMER FALL										
74	246	252	163.0500	158.6565	128.6000	123.3215	34.4500	35.3349	22.5382	1418500.	2
			138.5222	25.5131	112.7128	25.0281	25.8094	.4850	3.3186	1048639.	
74	266	273	603.0667	343.1320	541.0333	292.8336	62.0333	50.2985	18.9025	510000.	3
			555.0081	416.5829	520.9039	342.6031	55.3567	75.5165	14.0434	509516.	
74	289	294	31.7500	59.5825	27.1000	51.0130	4.6500	8.5695	15.0526	1630000.	2
			18.4555	57.0232	16.1220	49.2740	2.3335	7.7492	1.4003	848528.	

YEAR	WKSTRT	WKEND	AVETPC MG/L STDD	AVETPD KG STDD	AVEMPC MG/L STDD	AVEMPD KG STDD	AVEOPC MG/L STDD	AVEOPD KG STDD	AVE%OR STDD	AVEFLO L/WK STDD	N
74	336	343	31.7250 10.6453	225.0795 79.3803	28.8250 10.4968	203.6545 74.8324	2.9000 1.4306	21.4250 14.5728	9.6213 5.5373	7140000. 1853663.	4
74	343	350	76.0400 66.1055	300.3468 230.6353	68.2800 59.7499	271.6820 212.7824	7.7600 6.8054	28.6648 18.2749	9.9957 1.9354	5236000. 2419252.	5
74	350	357	24.7200 9.3476	228.3768 149.2559	20.5400 8.4008	187.2336 123.7350	4.1800 1.6814	41.1432 30.9379	17.2445 5.2251	8940000. 5030527.	5
74	357	364	2.6750 .2500	10.3280 3.6195	2.2000 .3367	8.3327 2.4449	.4750 .1500	1.9952 1.2229	17.9915 6.0382	3880000. 1388836.	4
74	364	6	4.7000 1.1533	19.8680 5.0261	3.0333 .8083	12.7470 2.9298	1.6667 1.5948	7.1210 7.0213	32.0792 24.4919	4330000. 1140132.	3
75	6	13	34.6857 66.6077	127.8154 157.2502	29.4714 57.3955	106.2703 136.1803	5.2143 9.2187	21.5451 21.4840	18.1009 4.2341	7121429. 4139136.	7
75	13	20	24.2286 11.0885	257.4724 181.7704	17.8429 9.4914	191.6881 151.4644	6.3857 2.8139	65.7843 50.0284	27.9612 9.2048	10994286. 6926668.	7
75	20	27	10.9714 12.4169	74.0234 33.9074	6.1857 10.2941	31.0541 24.8629	4.7857 2.1373	42.9693 22.1611	59.9625 20.9809	10484286. 6575809.	7
75	27	34	10.8000 6.9378	98.7725 98.3251	6.3750 6.3369	62.0097 81.4308	4.4250 .7274	36.7627 18.5781	50.9770 21.6793	8152500. 3246818.	4
75	34	41	6.9000 2.2686	89.5990 68.5169	5.5429 1.8174	68.8087 50.3867	1.3571 .9271	20.7903 21.9956	18.4383 11.0985	12508571. 7748661.	7
75	41	49	34.0286 65.0461	174.5514 187.0975	28.6571 56.1000	142.6637 160.6006	5.3714 8.9886	31.8877 29.6910	20.4512 9.2883	10194286. 6153987.	7
75	49	55	17.2857 21.2990	85.0811 90.9388	15.0000 19.3679	72.3417 82.6018	2.2857 2.0651	12.7394 9.9021	20.0552 16.1409	6145714. 3759066.	7
75	55	62	18.7429 23.9092	113.7317 99.2985	16.3429 22.6055	95.3810 87.2566	2.4000 1.7682	18.3507 17.2373	18.8617 12.7305	7954286. 4826565.	7
75	62	69	23.3000 10.7300	179.8880 110.9138	21.8500 11.1327	170.0722 113.6674	1.4500 1.0661	9.8157 7.5452	8.0876 5.9335	7325000. 1519002.	4
	WINTER SPRING										
75	69	76	61.5857 41.2434	1301.2746 847.1539	58.1571 39.0272	1224.0134 792.5308	3.4286 2.3648	77.2611 59.3281	5.4954 1.4060	24680000. 15500254.	7

YEAR	WKSTRT	WKEND	AVETPC MG/L STDD	AVETPD KG STDD	AVEMPC MG/L STDD	AVEMPD KG STDD	AVEOPC MG/L STDD	AVEOPD KG STDD	AVEXOR STDD	AVEFLO L/WK STDD	N
75	76	83	155.2143 102.8801	5220.4963 5118.6970	138.0857 88.5870	4581.5049 4228.9056	17.1286 16.0357	638.9914 906.0553	9.4973 3.6981	38320000. 24128022.	7
75	83	90	43.0000 22.0848	950.1749 917.5441	40.9143 20.1000	901.6323 845.3346	2.0857 2.3348	48.5426 78.4628	4.4928 3.7362	19211429. 11996947.	7
75	90	97	12.1000 11.6789	137.5177 218.0508	10.9429 10.6853	124.4691 199.7463	1.1571 1.0163	13.0486 18.5214	10.0375 3.1828	10515714. 6416195.	7
75	97	104	5.4250 2.2809	57.6312 37.7648	4.8750 1.8857	51.5990 32.6498	.5500 .4796	6.0322 5.8350	9.1232 6.5916	10077500. 3625395.	4
75	104	111	19.4333 19.1588	160.1457 93.5986	10.9167 14.0055	78.3160 67.5371	8.5167 5.4053	81.8297 40.0206	54.1082 21.1448	11983333. 6186261.	6
75	111	118	14.8667 5.4368	165.4300 119.2243	5.7833 3.5863	53.6287 39.9688	9.0833 5.6368	111.8013 100.8079	57.9977 22.5323	11698333. 8159045.	6
75	118	125	46.4167 39.4158	756.1568 651.0397	39.1333 34.8874	635.5513 577.5960	7.2833 4.6201	120.6055 77.6652	18.0363 4.4350	19938333. 13676053.	6
75	125	132	42.6429 31.9115	588.3866 507.4943	36.4143 29.8004	497.9077 443.6176	6.2286 2.2611	90.4789 66.2329	18.8442 7.3414	15450000. 10474038.	7
75	132	139	33.6625 23.3144	408.9916 231.8837	27.6750 19.4879	333.5297 192.4975	5.9875 3.8761	75.4619 41.5458	18.1420 2.6282	14727500. 9251574.	8
75	139	147	14.5250 5.5476	174.2875 73.7916	10.9250 4.6220	130.6100 58.7240	3.6000 1.0296	43.6775 16.9470	25.9818 4.5676	12075000. 2305609.	4
75	147 SPRING	153	114.3250 143.7622	378.4654 192.2362	87.1625 107.9020	295.6726 183.1861	27.1625 36.0110	82.7927 34.1588	22.9346 5.0054	6016250. 3926241.	8
75	SUMMER 153	160	22.0000 6.1664	351.2248 467.9670	14.0200 5.2509	203.9166 249.7864	7.9800 1.8130	147.3082 218.7903	37.4977 8.6074	20768000. 32680257.	5
75	160	167	55.0000 23.2472	301.0640 159.3799	42.2600 20.4846	231.4992 135.2300	12.7400 3.1989	69.5648 27.3844	25.4686 8.4216	5338000. 1342002.	5
75	167	174	200.7667 131.6608	1787.2370 1966.6127	168.6667 113.4255	1514.9667 1695.6770	32.1000 18.7094	272.2703 271.2909	16.7031 2.0246	7583333. 4306534.	3
75	174	181	47.7000 31.9150	93.4450 64.3362	34.3000 22.9109	67.5070 46.3800	13.4000 9.3872	25.9380 18.7220	29.0087 7.1402	1910000. 242487.	3

YEAR	WKSTRT	WKEND	AVETPC MG/L STDD	AVETPD KG STDD	AVEMPC MG/L STDD	AVEMPD KG STDD	AVEOPC MG/L STDD	AVEOPD KG STDD	AVE%OR STDD	AVEFLO L/WK STDD	N
75	181	188	47.4000 .0000	31.9002 .0000	35.6000 .0000	23.9588 .0000	11.8000 .0000	7.9414 .0000	24.8945 .0000	673000. .	1
75	188	195	579.3143 483.3199	14404.9531 16448.4720	481.0714 406.8264	11899.3229 13846.2780	98.2429 76.9180	2505.6303 2613.0755	18.2309 2.8075	30965714. 18869021.	7
75	195	202	114.9857 81.5460	1705.3130 1265.4033	88.4857 68.2153	1303.6680 1039.4897	26.5000 14.4601	401.6450 238.5680	27.0637 9.0880	18435714. 11382928.	7
75	202	209	36.0857 9.8717	218.0893 109.8368	30.0714 6.0651	181.6419 88.5681	6.0143 4.4805	36.4474 30.4172	14.7946 10.2016	6358571. 3467859.	7
75	209	216	106.2333 124.3297	202.0914 200.5581	82.5000 105.0769	146.4297 167.7305	23.7333 21.2517	55.6617 44.9338	28.6121 16.1857	2779333. 1516019.	6
75	216	223	64.9167 37.7449	302.7707 209.2268	51.2500 30.6390	235.3768 162.5997	13.6667 7.3252	67.3938 48.5083	21.9822 3.7715	5401667. 3146944.	6
75	223	230	250.0000 258.1936	1084.5888 996.1303	215.2000 228.7875	880.0002 779.6665	34.8000 32.3384	204.5886 234.6049	15.8672 5.8738	8385429. 6146709.	7
75	230	239	28.2000 .0000	214.6020 .0000	6.3000 .0000	47.9430 .0000	21.9000 .0000	166.6590 .0000	77.6596 .0000	7610000. .	1
75	237	244	72.2286 44.1486	554.2614 456.1937	59.3143 37.5296	448.1784 371.0934	12.9143 7.9100	106.0830 90.2205	16.0705 8.6953	6237000. 4135527.	7
	SUMMER FALL										
75	244	251	31.0750 30.3170	152.8897 106.0212	22.1125 24.2602	110.7509 80.8845	8.9625 6.4825	42.1389 26.5667	35.2547 21.6329	6567500. 6900921.	8
75	251	258	18.8000 5.2326	45.5790 9.3635	11.4500 1.9092	27.8770 2.5725	7.3500 3.3234	17.7020 6.7911	38.1118 7.0700	2450000. 183848.	2
75	258	265	36.6333 20.2322	147.4017 57.9196	26.3333 15.1546	106.4783 45.0086	10.3000 5.6312	40.9233 15.2990	27.9420 5.3319	6336667. 6523744.	3
75	265	272	195.4667 129.2371	12788.6750 8951.5878	160.8000 107.3146	10482.6933 7516.7607	34.6667 23.0865	2305.9817 1541.6373	17.9457 6.1625	63433333. 28600816.	6
75	272	280	31.1667 3.2316	404.8400 228.2073	23.2667 3.8371	303.1300 189.5876	7.9000 3.3045	101.7100 61.0874	25.2862 9.8373	12566667. 6174410.	3
75	280	287	57.6600 31.5338	942.7318 720.0933	40.3600 22.3144	635.4084 446.6641	17.3000 10.5012	307.3254 276.2686	29.1417 6.6660	17498000. 7946573.	5

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YEAR   WKSTRT   WKEND    AVETPC      AVETPD     AVEMPC      AVEMPD    AVEOPC     AVEOPD      AVE%OR      AVEFLD     N
                          MG/L         KG        MG/L         KG       MG/L        KG                     L/WK
                          STDD        STDD       STDD        STDD      STDD       STDD         STDD       STDD

 75     287      293    45.0500    702.3000    30.7500    473.3800   14.3000   228.9200     33.5899 16525000.    4
                        19.8712    260.7332    15.4963    187.5049    4.4475    80.1733      5.7668  4891745.

 75     293      301    45.6000    551.7045    37.4500    438.3120    8.1500   113.3925     17.7633 12385000.    4
                        32.4426    445.5390    25.0027    320.5591    9.9928   131.4820     11.9904  4318437.

 75     301      307    46.3750    585.6205    39.9750    481.1675    6.4000   104.4530     14.1276 16295000.    4
                        15.0467    380.3766    14.0037    269.3212    6.2860   125.1180     12.6168 16788134.

 75     307      314    38.6250    268.7020    30.9500    214.9070    7.6750    53.7950     19.8688  7930000.    4
                        21.8858    110.1122    17.5707     87.0124    4.3231    23.1575       .8631  3037378.

 75     314      321    64.9400   1081.9684    50.8400    848.6116   14.1000   233.3568     23.1230 17156000.    5
                        38.1067    841.6755    31.6611    685.0872    6.5196   159.5999      3.1739  9324628.

 75     321      328    30.2167    403.6298    24.0333    319.2650    6.1833    84.3648     21.3063 13365000.    6
                         7.2336    295.3225     6.6229    232.2442    1.0265    64.7764      5.6333  8540810.

 75     328      335    16.3000    301.1805    11.8500    217.6760    4.4500    83.5045     29.5012 13696667.    6
                        11.7086    521.7958     9.0987    381.5690    2.9180   140.4958      8.0114 12670269.
```

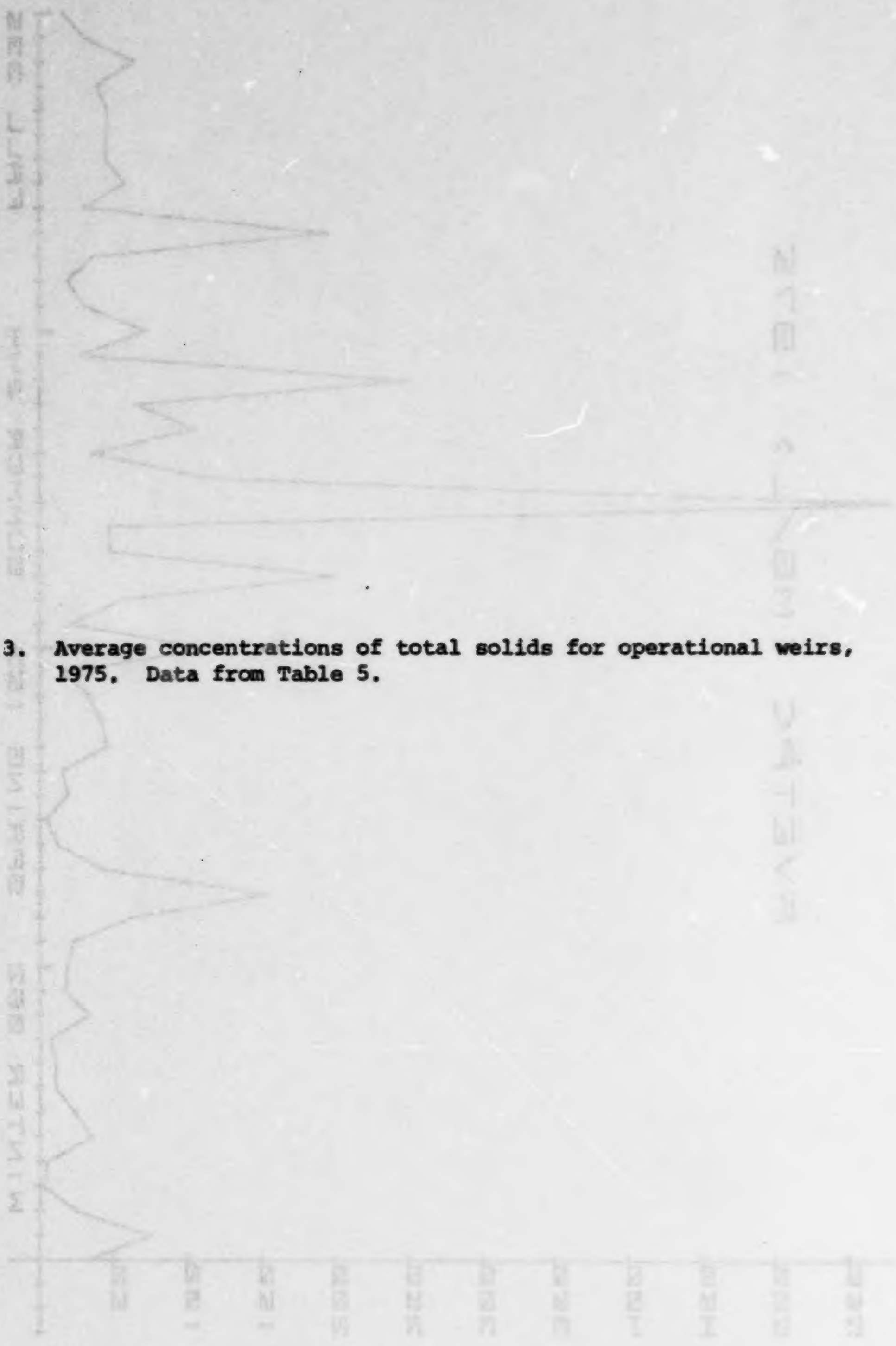


Figure 3. Average concentrations of total solids for operational weirs, 1975. Data from Table 5.

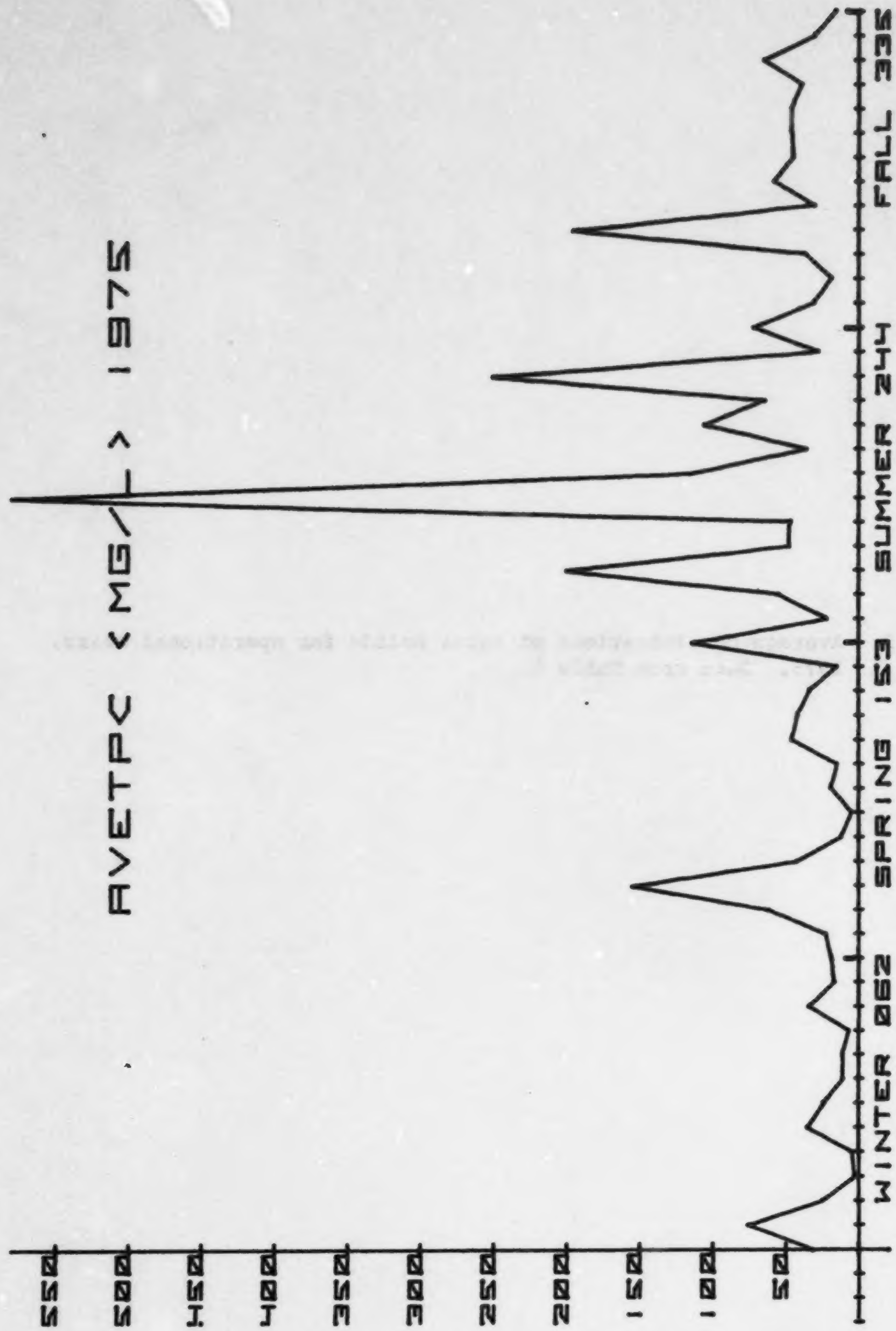
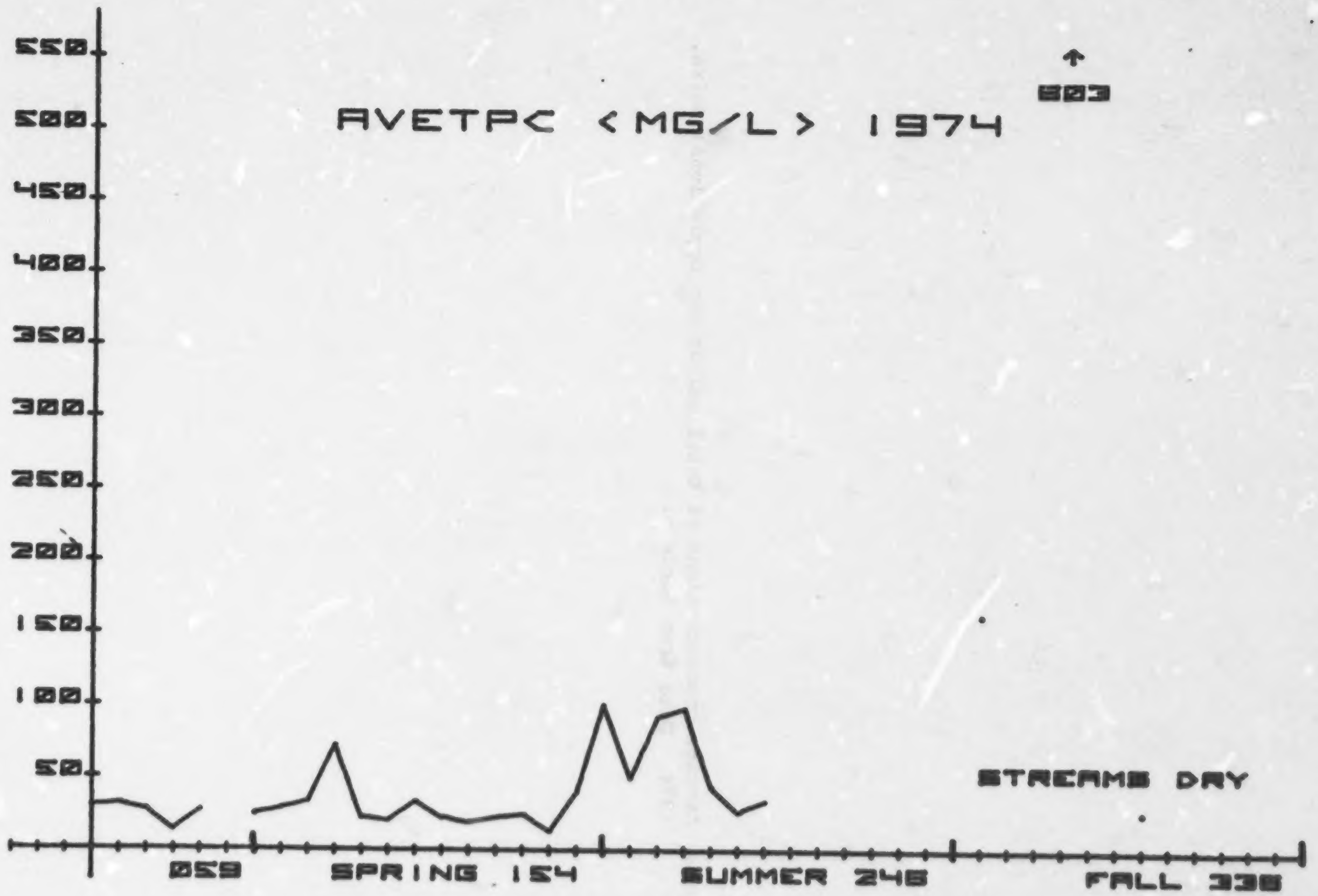

AVETPC <MG/L> 1975
550
500
450
400
350
300
250
200
150
100
50
WINTER 062
SPRING 153
SUMMER 244
FALL 335

Figure 4. Average concentrations of total solids for operational weirs, 1974. Data from Table 5.


AVETPC <MG/L> 1974
803
550.
500.
450.
400.
350.
300.
250.
200.
150.
100.
50.
STREAMS DRY
059
SPRING 154
SUMMER 246
FALL 338

of mineral matter closely follow those of total solids. Concentrations were much higher in 1975 than in 1974 (Fig. 4, Table 5). The highest concentrations occurred in 1975 during the summer months. In 1974, the streams were dry during this comparable period.

The organic phase of total solids ranged from none to 69 percent. The average of all weirs indicates that there is not a great deal of seasonal difference in the percentage of organic matter (Fig. 5) during 1975. Early spring is low, which lowers the overall spring average. In general, the weeks with high organic percentage occur at times of low concentration of total solids (Fig. 3). This repeats the pattern of 1974 (Figs. 6 and 4).

Mineralogy of suspensates

Minerals present in the samples, as well as the angle of maximum diffracteed intensity are:

Mineral	degrees 2θ	
Montmorillonite	5.8 - 6.6	(unexpanded)
Illite	8.8	
Amphibole	10.6	
Kaolinite-Chlorite	12.4	
Quartz	20.8	
Potasium Feldspar	27.5	
Plagiclase Feldspar	27.8	

The technique reports the mineral amounts as percent of diffracted intensity of the sum of the intensities of all minerals present.

The variation in the calculated relative percentages for all watersheds is listed below:

Figure 5. Average percentage of organic material in sample, 1975. Data from Table 5. Vertical lines are standard deviation about the mean.

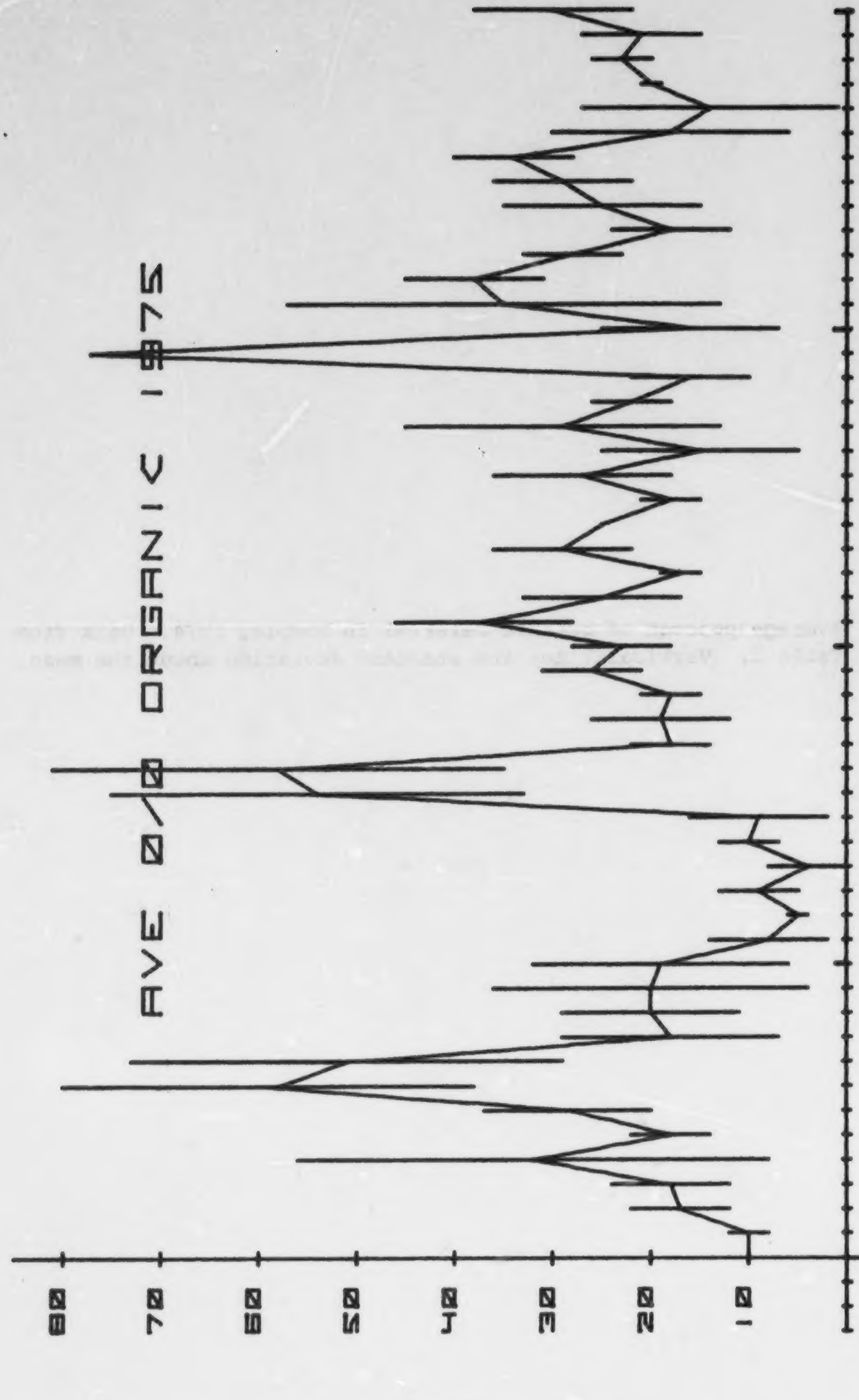
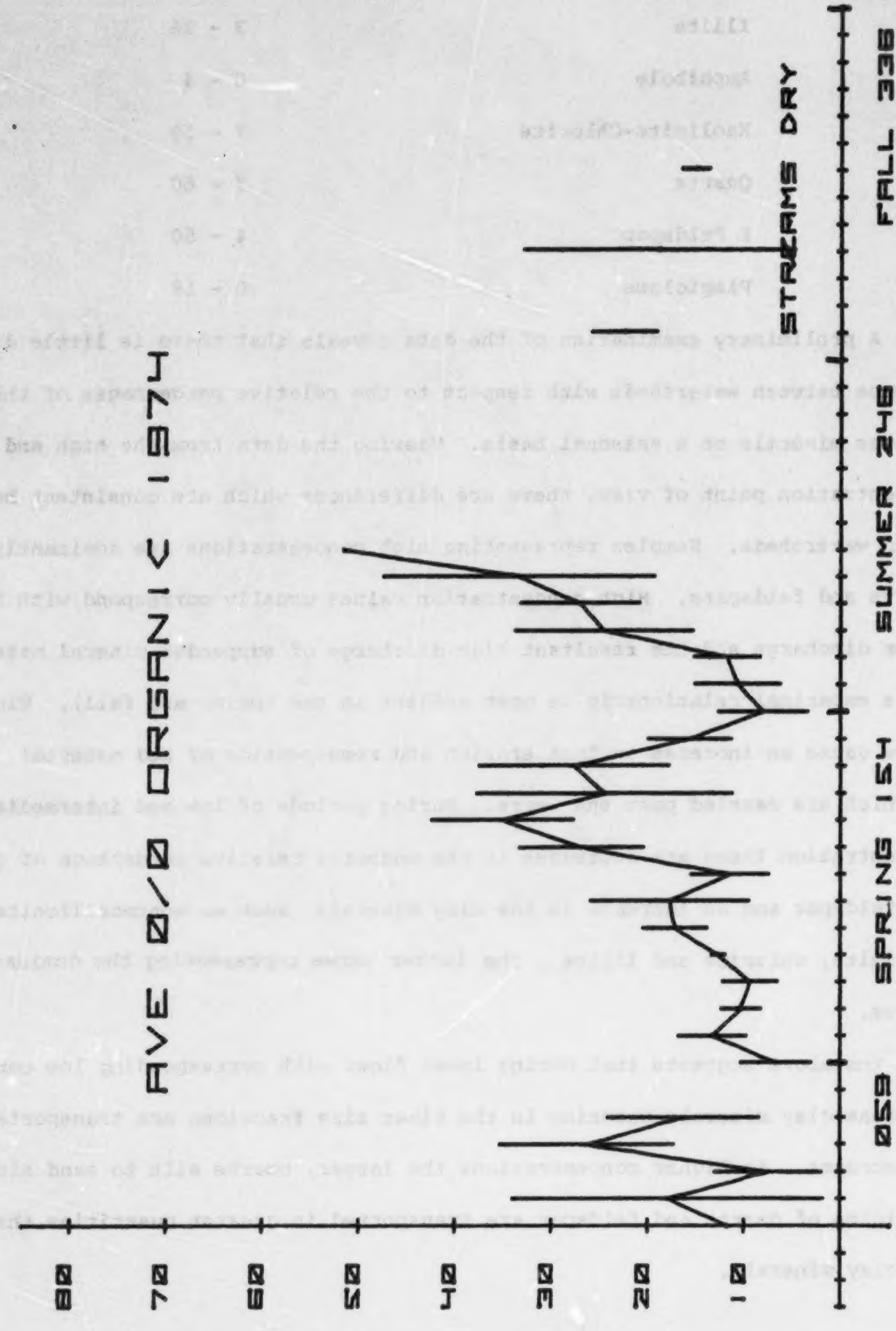

AVE 0/0 ORGANIC 1975
80
70
60
50
40
30
20
10
WINTER 062
SPRING 153
SUMMER 244
FALL 335

Figure 6. Average percent of organic material in sample, 1974. Data from Table 5. Vertical lines are standard deviation about the mean.


AVE 0/0 ORGANIC 1974
STREAMS DRY
059
SPRING
154
SUMMER
246
FALL
338
10
20
30
40
50
60
70
80

Montmorillonite	0 - 25
Illite	3 - 36
Amphibole	0 - 4
Kaolinite-Chlorite	7 - 59
Quartz	7 - 60
K Feldspar	4 - 50
Plagiclase	0 - 18

A preliminary examination of the data reveals that there is little difference between watersheds with respect to the relative percentages of the various minerals on a seasonal basis. Viewing the data from the high and low concentration point of view, there are differences which are consistent between watersheds. Samples representing high concentrations are dominantly quartz and feldspars. High concentration values usually correspond with high water discharge and the resultant high discharge of suspended mineral material. (This emperical relationship is most evident in the spring and fall). High flows cause an increase in bank erosion and resuspension of bed material, both of which are carried past the weirs. During periods of low and intermediate concentration there are decreases in the measured relative percentage of quartz and feldspar and an increase in the clay minerals, such as montmorillonite, kaolinite, chlorite and illite. The latter three representing the dominant phases.

The above suggests that during lower flows with corresponding low concentrations clay minerals occuring in the finer size fractions are transported by the streams. At higher concentrations the larger, coarse silt to sand size particles of quartz and feldspar are transported in greater quantities than the clay minerals.

Discharge

The amount of particulate material discharged by a stream depends not only on concentration of material in the water but the amount of water discharge. The amount of particulate minerals delivered to the stream by overland flow and to the amount of material eroded from the stream channel and banks. The organic material can originate from the uplands, from vegetation along the stream course, by generation in-situ by phytoplankton, and from the dissolved phase (Meyers and Quinn, 1973).

Guy (1964) noted there are seasonal variations in discharge. Warm season storms have a greater range of water discharge and the sediment discharge is often higher. In addition, storms during this season are more common than during the cooler months. Both water discharge and discharge of solids show a seasonal variability and are dependent upon the form of precipitation.

The distribution of the seasonal percentages of precipitation, water discharge, and sediment discharge for the different weirs do not fully bear out this idea. Our data appear to have considerable scatter but two years are insufficient to establish a trend.

Precipitation was lowest during the winter months for both years (Table 6). Despite the seasonably low precipitation during the winter, water discharge was higher than during the summer months and sediment discharge was higher at most weirs. In both years, precipitation during the summer was approximately double the winter precipitation. Thus, at this latitude, snowfall and frozen ground have less of an effect than ground cover and evaportranspiration.

Most of the water discharge occurred during the spring and fall months, generally more than 65% of the total. Sediment discharged during the same two seasons was near 70% or more of the yearly total.

	1974				1975			
	WIN	SPR	SUM	FALL	WIN	SPR	SUM	FALL
RAINFALL	10.8	41.3	20.0	27.9	18.2	24.4	32.5	24.9
	TOTAL RNF (cm)= 81.7				TOTAL RNF (cm)= 137.47			
101	27 / 14	64 / 67	6 / 12	3 / 7	18 / 3	35 / 34	16 / 24	31 / 39
102	18 / 13	74 / 81	6 / 6	2 / <1	19 / 6	37 / 33	12 / 17	32 / 44
106					16 / 1	34 / 15	18 / 45	32 / 39
107	33 / 30	56 / 52	8 / 5	3 / 13				
108	13 / 13	36 / 58	6 / 29	45 / -	14 / 2	33 / 11	18 / 15	35 / 72

TABLE 6 SEASONAL PERCENTAGE OF ANNUAL PRECIPITATION, WATER DISCHARGE, AND TOTAL SOLID DISCHARGE, 1974 and 1975.

% WATER DISCHARGE / % SOLID DISCHARGE

It is difficult to do more than make vague generalizations regarding water and sediment discharge for the two years because of the very large differences in precipitation between the two years. Precipitation in 1974 was 81.7 cm; in 1975, 137.47 cm. The average annual precipitation is approximately 100 cm.

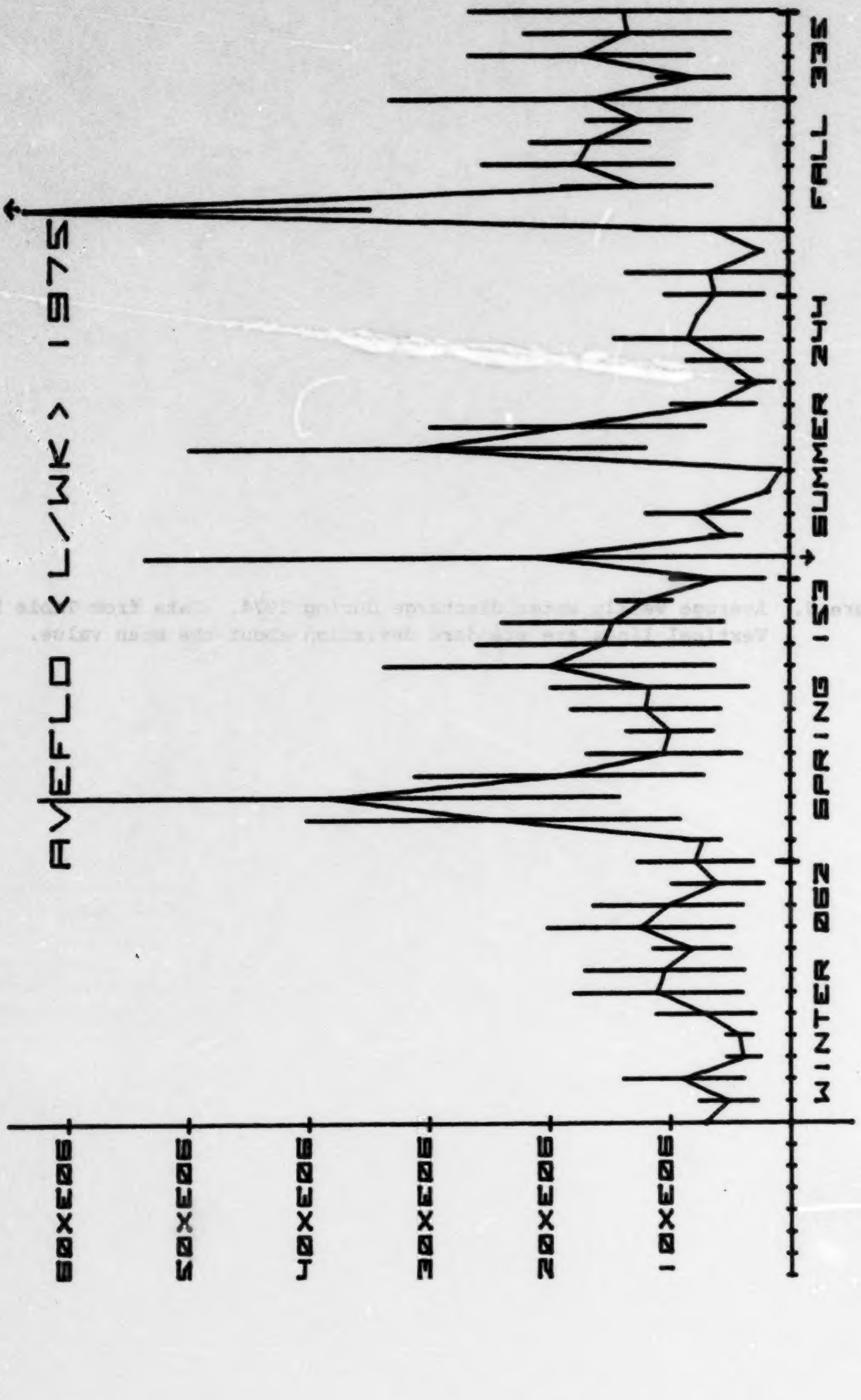
Only 27% of the precipitation estimated to have fallen on watershed 101 was discharged past the weir during 1975; 28% for weir 102, and 34% for weir 108. The greatest percentage of discharge was in the spring and fall seasons; the least in the summer.

The weekly average water discharge clearly shows the effect of storm events (Fig. 7). Comparison to 1974 (Fig. 8) indicates a great deal more flow in 1975. The seasonality during 1975 is also apparent. The high discharge of total solids (Fig.10) coincided, for the most part, with high water discharge more than with high concentrations of suspended material (Fig. 3). The discharge of solids in 1974 (Fig. 9) was slightly higher in the first half of the year than the comparable period of 1975 (Fig. 10) whereas the streams were dry in the second half of 1974, flow continued in 1975.

Four weirs have sufficient data during the grant year 1975 to allow estimates of material discharged past the weirs. These are 101, 102, 106, and 108 (Table 7). We did not estimate values for missing samples where more than five data points were missing for the season. Sufficient data are available or can be estimated to allow comparison to grant year 1974 (Table 8). Considerably more data points had to be estimated in 1974 in order to obtain comparisons. Only weirs 101 and 102 had sufficient data to estimate the annual discharge since all other operating weirs lacked at least one season.

Discharge of water during the summer and fall of 1974 was drastically less than the equivalent periods of 1975. The winter and spring seasons were approximately the same. Because of the low summer and fall discharges,

Figure 7. Average weekly water discharge during 1975. Data from Table 5. Vertical lines are standard deviation about the mean.


AVEFLO <L/WK> 1975
60XE06
50XE06
40XE06
30XE06
20XE06
10XE06
WINTER 062
SPRING 153
SUMMER 244
FALL 335

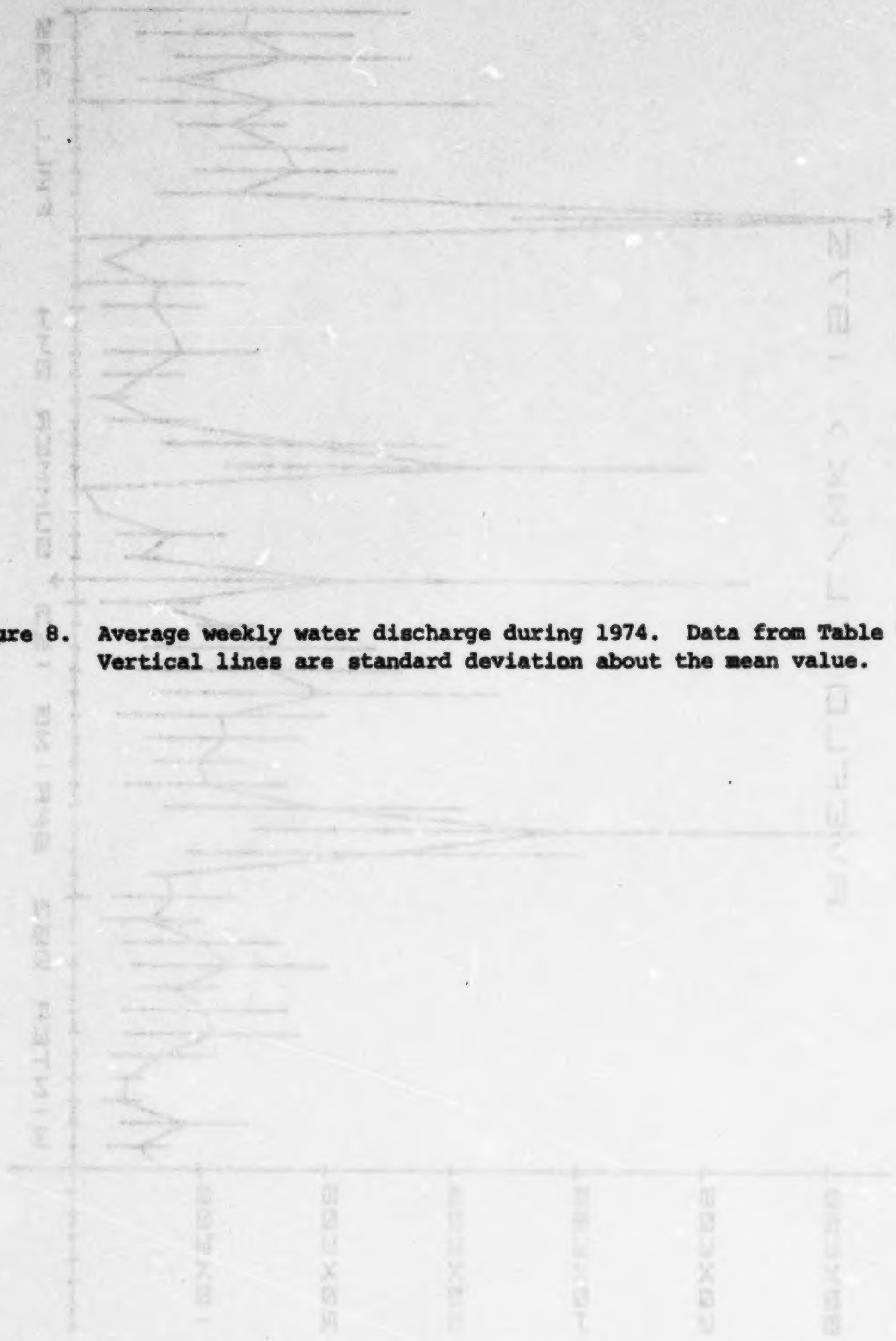


Figure 8. Average weekly water discharge during 1974. Data from Table 5. Vertical lines are standard deviation about the mean value.

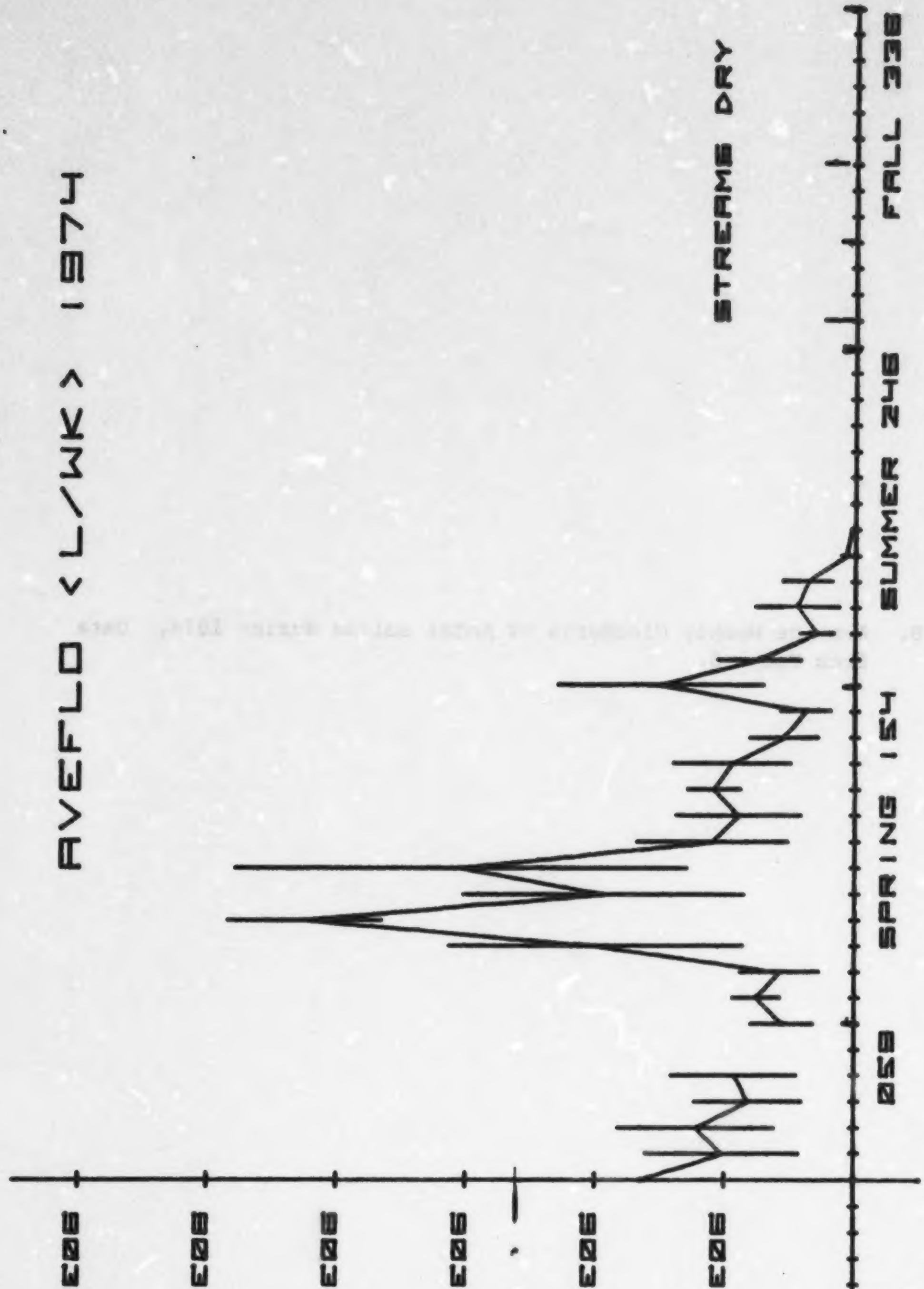

AVEFLO <L/WK> 1974
STREAMS DRY
60XE06
50XE06
40XE06
30XE06
20XE06
10XE06
059
SPRING 154
SUMMER 248
FALL 338

Figure 9. Average weekly discharge of total solids during 1974. Data from Table 5.

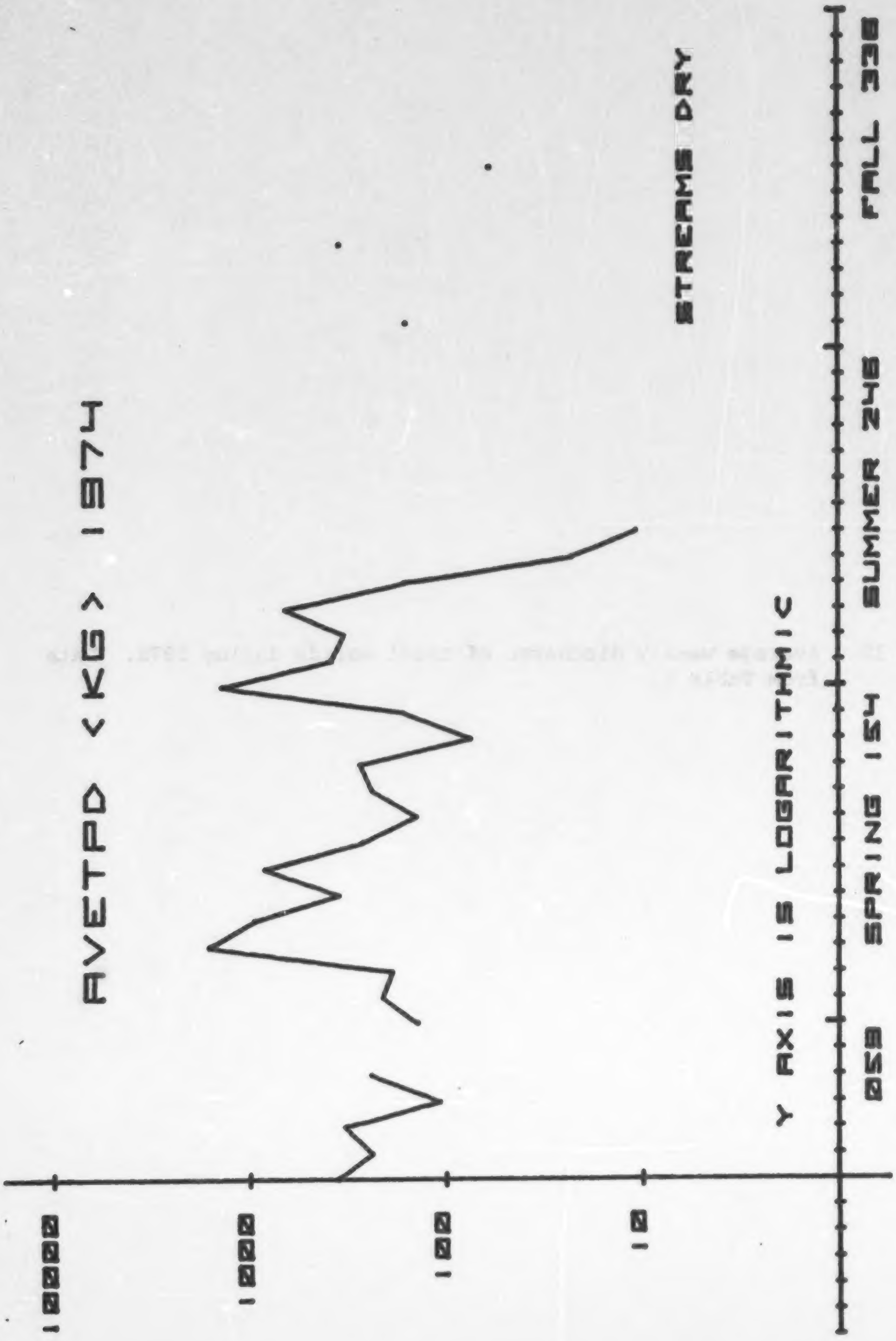


Figure 15. Average weekly discharge of total [illegible] during 1974. Data from Table 1.

Figure 10. Average weekly discharge of total solids during 1975. Data from Table 5.

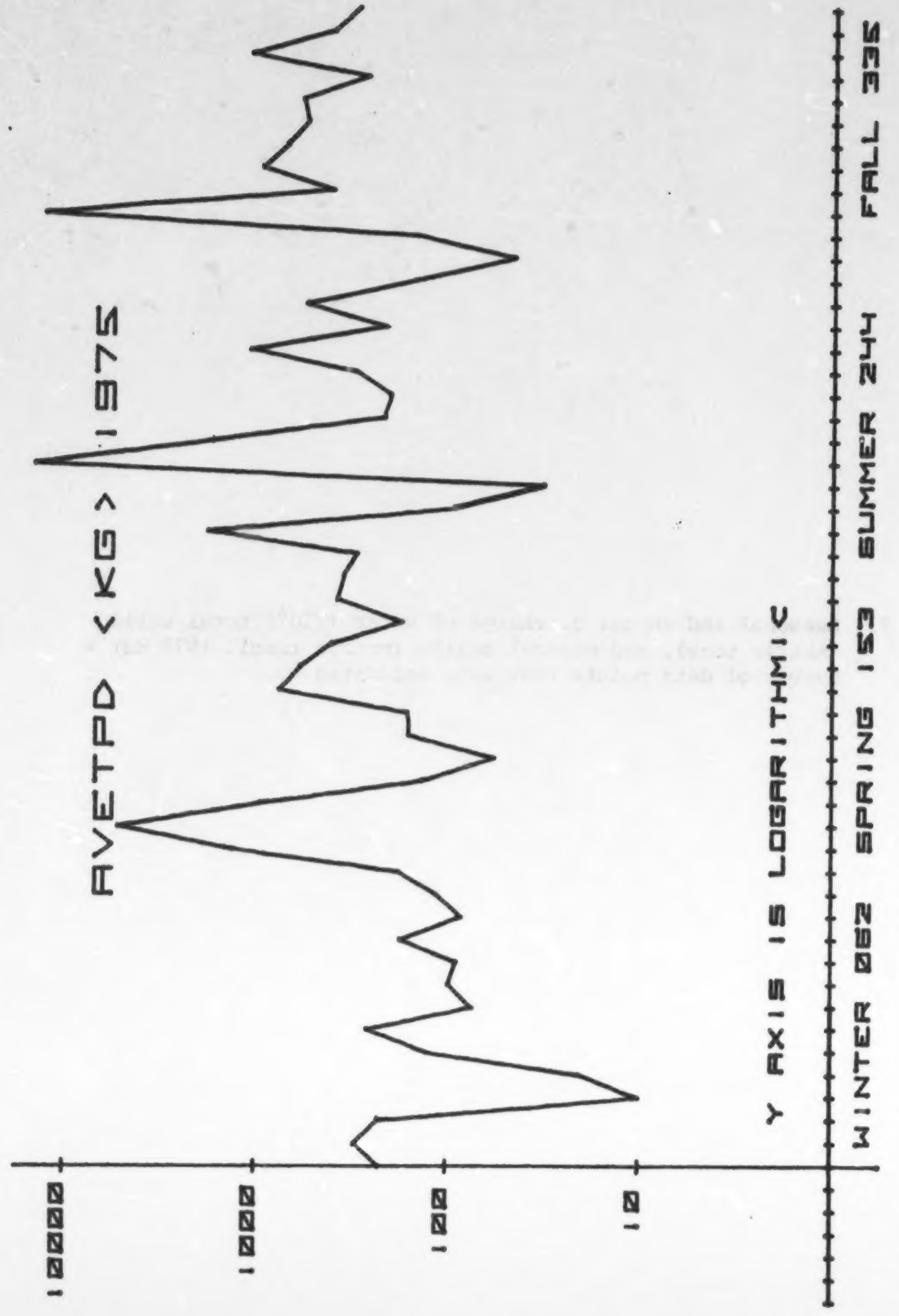

AVETPD <KG> 1975
Y AXIS IS LOGARITHMIC
10000
1000
100
10
WINTER 062
SPRING 153
SUMMER 244
FALL 335

TABLE 7. Seasonal and annual discharge of water ($X10^6$) total solids (metric tons), and mineral solids (metric tons), 1975 EST = number of data points that were estimated.

		101		102		103		105		106		107		108	
			$\overline{x}$/wk		$\overline{x}$/wk		$\overline{x}$/wk		$\overline{x}$/wk		$\overline{x}$/wk		$\overline{x}$/wk		$\overline{x}$/wk
WINTER	Qw (ℓX10^6)	159.9	12.3	143.6	11.0	137.3	10.6	35.47	2.73	58.3	4.5	24.0	1.8	101.5	7.8
	Qtot M.T.	2.21	0.17	1.66	0.13	2.67	0.20	Msg. spls. 6 of 13 wks		0.69	0.05	1.84	0.14	1.53	0.18
	Qmin M.T.	1.77	0.14	1.20	0.09	2.19	1.68			0.53	0.04	1.54	0.12	1.20	0.09
	EST	0		1		1		5		5		4		2	
SPRING	Qw	290.2	22.3	264.2	20.3	343.9	26.4	52.4	4.0	125.3	9.6	43.8	3.4	228.4	17.6
	Qtot	27.05	2.08	9.84	10.76	10.55	0.81	2.32	0.18	9.59	0.74	5.28	0.41	8.44	0.65
	Qmin	22.94	1.76	8.86	0.68	9.28	0.71	2.04	0.16	8.33	0.64	4.67	0.36	7.40	0.57
	EST	0		4		0		4		2		2		0	
SUMMER	QW	134.6	10.4	91.1	7.0	144.6	11.1	20.13	1.55	67.2	5.2	16.55	1.27	126.5	9.7
	Qtot	19.74	1.52	5.54	0.43	18.88	1.45	Msg. spls. 8 of 13 wks		28.95	2.23	Msg. spls. 8 of 13 wks		10.68	0.82
	Qmin	14.56	1.12	4.27	0.33	15.46	1.19			23.53	1.81			8.20	0.63
	EST	5		5		0				4				1	
FALL	Qw	255.9	19.7	225.9	17.4	253.7	19.5	46.57	3.58	115.5	8.9	Msg. spls. 11 of 13 wks		244.8	18.8
	Qtot	29.88	2.30	12.29	0.95	Msg. spls. 9 of 13 wks		Msg. spls. 9 of 13 wks		25.27	1.94			49.97	3.84
	Qmin	24.57	1.89	8.82	0.65					20.65	1.59			36.89	2.84
	EST	2		3						2				2	
ANNUAL	Qw	840.6		724.8		879.5		154.6		366.3				701.3	
	Qtot	78.88		29.33		-		-		64.50				70.62	
	Qmin	63.85		23.14		-		-		53.04				53.68	

TABLE 8. Seasonal and annual discharge of water, total solids and mineral solids and mineral solids, 1974. Little reliance should be placed on values with a high number of estimated data points, which are in parentheses below the values.

		101		102		103		107		108	
			$\bar{x}$/wk		$\bar{x}$/wk		$\bar{x}$/wk		$\bar{x}$/wk		
WINTER	Qw $\ell \times 10^6$	179.9 (5)	13.84	125.0 (7)	9.61	201.7 (6)	15.51	33.58 (5)	2.58	115.0 (5)	8.84
	QT M.T.	4.72 (7)	0.36	2.51 (8)	0.19	3.73 (8)	0.29	1.50 (6)	0.12	2.74 (5)	0.21
	Qm M.T.	3.94 (7)	0.30	2.10 (8)	0.16	3.30 (8)	0.25	1.26 (6)	0.10	2.49 (5)	0.19
SPRING	Qw	249.7 (0)	19.21	223.5 (0)	17.19			35.43 (0)	2.72	184.1 (0)	14.16
	QT	9.43 (0)	0.73	6.94 (0)	0.53	Weir	breached	1.53 (0)	0.12	6.82 (0)	0.52
	Qm	7.99 (0)	0.61	6.08 (0)	0.47			1.33 (0)	0.10	5.97 (0)	0.46
SUMMER	Qw	25.58 (0)	1.97	17.04	1.31	21.11 (0)	1.62	5.05 (0)	0.39	25.88 (0)	1.99
	QT	1.85 (7)	0.14	0.61 (0)	0.05	1.06 (1)	0.08	0.32 (10)	0.02	3.49 (3)	0.27
	Qm	1.57 (7)	0.12	0.52 (0)	0.04	0.90 (2)	0.07	0.27 (10)	0.02	2.72 (3)	0.21
FALL	Qw	13.82 (0)	1.06	3.11 (0)	0.24	4.32	0.36	2.24 (0)	0.02	4.85 (0)	0.37
	QT	3.76 (10)	0.29	0.25 (11)	0.02	No spls		No spls		No spls	
	Qm	3.09	0.24	0.21	0.02						
ANNUAL	Qw QT Qm	469 19.76 16.59		368.65 10.31 8.91				76.26		329.83	

the year 1974 had considerably less discharged water and solids.

Water discharge during 1974 was between 47 and 56 percent of that of 1975. The solids discharged during 1974 are estimated to be between 25 and 38% of that during 1975, somewhat less than the percent water difference. Precipitation during 1974 was about 59% that of 1975.

Water discharge per hectare ranged from a low of $2x10^4 \ell$ (Weir 102 and 103, Fall 74) to a high of $1.63x10^6 \ell$ (Weir 108, Fall 75). The annual discharge ranged from $1.92x10^6$l to $4.13x10^6$l (Table 9).

Discharge of total solids and mineral particles varied more, weir to weir, than does water discharge. For total solids, the discharge per hectare, ranged from a low of 1.3 kg/ha to greater nearly 304 kg/ha on a seasonal basis. On an annual basis, the range was from about 54 kg/ha to nearly 677 kg/ha. Discharge of mineral solids had the same range of values.

One would logically expect that cultivated row crops would be the largest contributor to the sediment load in the streams. On this basis, the weirs should rank, in order of discharge, as follows: 108, 102, 101, 106, 105, and 107. The ranking of sediment discharge does not follow this order in that 107, for every season where data are available, ranked first or second in amount of solids. Watershed 102, although high in the amount of cultivated crop land, was generally lowest in the amount of sediment discharged.

Cultivated fields generally located on the flattest ground where sheet wash and rill erosion would be the least effective. Watershed 107 had a high percentage of the land area in forests. This would suggest that the forested areas are high producers of sediment except that watershed 103, often near the bottom in sediment discharge, had the highest percentage of forested lands. There appears to be no easy way to single out any single land use as a major

TABLE 9. Discharge of water ($X10^{6}\ell$), total solids (kg), and mineral solids (kg) per hectare, 1974 and 1975.

		101		102		103		105		106		107		108	
		74	75	74	75	74	75	74	75	74	75	74	75	74	75
W	Wtr	0.80	0.71	0.65	0.75	0.80	0.54	NOT OPERATIONAL	0.95	NOT OPERATIONAL	0.61	1.19	0.85	0.77	0.68
	Total	20.88	9.78	13.07	8.65	14.74	10.55				7.24	53.19	65.25	18.27	10.20
	Mineral	17.43	7.83	10.94	6.25	13.04	8.66				5.56	44.68	54.61	16.60	8.00
SP	Wtr	1.10	1.28	1.16	1.38		1.36		1.40		1.31	1.26	1.55	1.23	1.52
	Total	41.73	119.69	36.15	51.25		41.70		61.87		100.63	54.26	187.23	45.47	56.27
	Mineral	35.35	101.50	31.67	46.15		36.68		54.40		87.41	47.16	165.60	39.80	49.33
SU	Wtr	0.11	0.60	0.09	0.47	0.08	0.57		0.54		0.71	0.18	0.59	0.17	0.84
	Total	8.19	87.35	3.18	28.85	4.19	74.62				303.78	11.35		23.27	71.20
	Mineral	6.95	64.42	2.71	22.24	3.56	61.11				246.90	9.57		18.13	54.67
F	Wtr	0.06	1.13	0.02	1.18	0.02	1.00		1.24		1.21	0.08		0.03	1.63
	Total	16.64	132.21	1.30	64.01						265.16				333.13
	Mineral	13.67	108.72	1.09	45.94						216.68				245.93
yr	Wtr	2.08	3.72	1.92	3.78		3.48		4.13		3.84	2.70		2.20	4.68
	Total	87.43	349.03	53.70	152.76						676.81				470.80
	Mineral	73.41	282.52	46.41	120.52						556.56				357.87

contributor.

It should be pointed out that the values cited in this section for amount of sediment discharged makes use of estimated values instead of spot sample. The values calculated in Appendix I uses either integrated samples or spot samples to calculate discharge. The two values most likely will not agree.

Area Yield Rates

A more figorous approach to the amount of material originating from different land uses, in multiple-use watersheds, is set up a series of equations relating the yield in each watershed to the sum of the yields from each land use type. The latter become the unknowns in a series of simultaneous equations. Given the area of each land use type in each watershed, we then have a series of coefficients and unknowns in a linear equation for each watershed. The unknowns are yields per unit area for each land use. Thus, for yield Y , from the ith watershed, per unit time interval,

$$Yi=A_{11}x_{11}+A_{12}x_{12}+\cdots\cdots+A_{mn}x_{mn}$$

where A_{ij} is the area of land use X.j in watershed. There are m equations available, equal to the number of watersheds.

The results of applying this method twice to the Rhode River watershed have been reported previously. The 1974 progress report used data from part of the year 1974. Results for the entire grant year 1974 have been reported by Correll et al (1975). These equations are the result of a partial year's data or only one year (Table 10). Precipitation during this year, 1974, was approximately 81% of the normal 100 cm of precipitation.

The data for 1975 were analyzed, using a slightly different approach. Several of the land use categories were aggregated into three broad categories: cultivated fields include row crops and residential; pasture includes hay fields and pasture; and forest includes wet areas, old fields and forests (Table 11). The areas occuppied by different land uses were also revised in keeping with changing uses.

Data for 1974 suggest that wet areas are primarily sinks for sediment, a not unreasonable conclusion. Cultivated crops and forests appear to be sources

TABLE 10. Yield of mineral solids for different land use categories in kg/ha/da for 1974.

1974 Progress Report to NSF-RANN

Period Julian day	Cultivated Crops	Wet Areas	Forest, Old fields	Grass lands	Residential and other
17-45	0.27	-3.57	0.10	0.28	0.36
52-73	0.48	-7.14	0.10	-0.14	0.67
119-148	0.52	-13.45	0.001	-0.30	2.03
148-161	1.77	-66.15	0.09	2.15	7.31
161-182	1.52	-40.95	-0.09	-0.03	1.35
Correll et al (1975)					
Winter	0.35	1.4	0.19	0.097	0.91
Spring	0.54	-20	0.19	-0.49	10
Summer	0.59	-13	0.028	-0.058	1.9
Fall	0.028	2.6	0.13	0.33	-1.1
Annual	0.38	-7.4	0.16	0.21	2.9

TABLE 11. Area yield rates of total and mineral solids, in kg/ha/da, for different land use categories, 1975.

	WINTER	SPRING	SUMMER	FALL	ANNUAL
CROPS					
TOTAL	0.1121	0.6327	-3.5659	3.1857	2.3995
MINERAL	0,0529	0,5929	-.2,6681	1.9055	2.0154
PASTURE					
TOTAL	-0.0716	1.3440	5.7319	15.2967	10.1401
MINERAL	-0,0582	1,1758	4.0297	12.7143	-8.4753
FOREST"					
TOTAL	0,1757	0.4496	0.0578	-5.9132	-4.0989
MINERAL	0.1474	0.3925	0.1619	-4.7670	-3.4753

for sediment. The other two land use categories, grass lands and residential, may be limited sources. Because the results appeared reasonable on an intuitive basis, we felt that this very simplistic approach might be useful on a regional basis.

Application of the method to data collected in 1975 did not give results that are as easily interpreted. Cultivated crops and pasture lands are the prime sources although acting as sinks during some seasons. Forests are the prime source in winter but act as sinks during the fall and on an annual basis. It is difficult to visualize how any upland area coudd act as a sink for material, i.e. with a negative yield. Aggregating the small wetland areas with large areas of forest (Table 1) would hardly seem to cause this change.

As a check, the equations were applied to the data used in their generation (Table 12). The results do not give one a feeling of confidence that the method, as now applied, can be used for prediction of sediment discharge. The predictions were from 13 to 33% lower than the amount of material actually measured.

The equations were also used in conjunction with the area of each land use for the entire Rhode River (Table 13). The results further discourage use of the area loading coefficients as now derived. It is extremely difficult to imagine how there can be negative discharges to the estuary during two seasons and on an annual basis.

There are obviously other factors that enter into an evaluation of delivery of sediment to a receiving body of water other than land use and rainfall. The Universal Soil Loss Equation evaluates a multiplicity of factors such as slope, soil erodibility, soil conservation practices, and ground cover. Other factors which have been used are stome intensity, stream gradient, size analyses of soil, drainage network and disturbances.

TABLE 12. Measured and calculated discharge of mineral solids (metric tons). Calculated from area yield rates (Table XI).

	101			102			106			108			All operational weirs		
	Meas.	Calc	Diff.	Meas.	Calc	Diff.	Meas.	Calc	Diff.	Meas.	Calc	Diff.	Meas.	Calc	Diff.
Winter	1.77	1.57	-11%	1.20	1.40	17%	0.53	0.52	-2%	1.20	1.10	-8%	8.43	7.37	-13%
Spring	22.94	13.09	-43%	8.86	10.64	20%	8.33	6.10	-27%	7.40	8.27	12%	63.52	53.29	-16%
Summer	14.56	15.87	9%	4.27	5.69	33%	23.53	9.33	-60%	8.20	2.59	-68%	66.02	47.63	-28%
Fall	24.57	21.05	-14%	8.82	10.62	20%	20.65	21.44	4%	36.89	7.39	--80%	90.93	60.50	-33%
Annual	63.85	51.66	-19%	23.14	29.37	27%	53.04	55.63	5%	53.68	21.89	-59%	193.71	158.55	-18%

TABLE 13. Predicted discharge of sediment (metric tons) into the Rhode River, calculated by application of area yield rates to entire basin.

	WINTER	SPRING	SUMMER	FALL	ANNUAL
1974					
mineral	88.58	114.8	- 6.30	28.30	206.7
1975					
total	35.13	162.4	-51.39	-293.2	-819.7
mineral	26.69	144.6	-26.66	-269.5	-715.8

Any factor, in order to be useful, on a regional basis for prediction of sediment impact on receiving water, must be easily obtainable in a routine manner. This undoubtedly disqualifies many factors such as soil conservation practices, size analysis of soils, basin-by-basin storm intensity.

Other factors are easily obtainable or are routinely monitored. The network of weather stations will give averag e rainfall on a seasonal basis. Slope of the land and stream gradient are obtainable from topographic maps, as is drainage network. Some soil factors can be obtained from soil conservation maps.

Further studies to assess discharge of sediment and sources on a regional basis should concentrate on easily obtainable factors affecting soil erosion and sediment movement. Factors, which require intensive surveying, should be left to special studies as they would be extemely expensive to obtain on a regional basis.

ACKNOWLEDGMENTS

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WEIR 101 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
74 336 1030	74 343 1045	27	8.94000E+06	1.06061E+06
74 343 1045	74 350 1130	37	7.26000E+06	1.18268E+06
74 350 1130	74 357 1000	24	1.39000E+07	1.47061E+06
74 357 1000	74 364 0925	3	4.92000E+06	5.88048E+04
74 364 0925	75 006 1115	4	5.46000E+06	8.45950E+04
75 006 1115	75 013 1100	8	1.23000E+07	4.13811E+05
75 013 1100	75 020 1000	21	1.84000E+07	1.67791E+06
75 020 1000	75 027 1105	6	1.65000E+07	4.52855E+05
75 027 1105	75 034 1145	21	1.18000E+07	1.07605E+06
75 034 1145	75 041 1240	10	2.04000E+07	8.75963E+05
75 041 1240	75 049 1340	4	1.67000E+07	2.95706E+05
75 049 1340	75 055 1205	12	1.02000E+07	5.32802E+05
75 055 1205	75 062 1225	10	1.33000E+07	6.00531E+05
75 062 1225	75 069 1210	34	8.99000E+06	1.35308E+06
75 069 1210	75 076 1320	65	3.25000E+07	9.38026E+06
75 076 1320	75 083 1345	276	5.73000E+07	7.00841E+07
75 083 1340	75 090 1245	86	3.10000E+07	1.18017E+07
75 090 1245	75 097 1215	36	1.74000E+07	2.78831E+06
75 097 1215	75 104 1210	9	1.25000E+07	4.86941E+05
75 104 1210	75 111 1205	21	1.70000E+07	1.54272E+06
75 111 1205	75 118 1205	18	1.86000E+07	1.49031E+06
75 118 1205	75 125 1305	64	3.08000E+07	8.67145E+06
75 125 1305	75 132 1135	58	2.27000E+07	5.83829E+06
75 132 1135	75 139 1150	38	2.22000E+07	3.71474E+06
75 139 1150	75 147 1130	20	1.18000E+07	1.03426E+06
75 147 1130	75 153 1355	48	7.37000E+06	1.57253E+06
75 153 1355	75 160 1150	20	6.23000E+06	5.48814E+05
75 160 1150	75 167 .	26	5.45000E+06	6.34506E+05
75 167 .	75 174 1125	.	6.64000E+06	.
75 174 1125	75 181 .	.	1.94000E+06	.
75 181 .	75 188 1045	.	9.94000E+05	.
75 188 1045	75 195 1220	1290	3.78000E+07	2.15873E+08
75 195 1220	75 202 1140	116	2.82000E+07	1.44308E+07
75 202 1140	75 209 1205	45	8.55000E+06	1.68426E+06
75 209 1205	75 216 1100	50	4.55000E+06	1.01111E+06
75 216 1100	75 223 1130	114	6.08000E+06	3.06288E+06
75 223 1130	75 230 1200	176	1.34000E+07	1.04519E+07
75 230 1200	75 237 1105	.	4.09000E+06	.
75 237 1105	75 244 1020	113	1.07000E+07	5.35710E+06
75 244 1020	75 251 1130	29	9.93000E+06	1.27916E+06
75 251 1130	75 258 1145	.	3.72000E+06	.
75 258 1145	75 265 1150	.	5.27000E+06	.
75 265 1150	75 272 1200	283	8.27000E+07	1.03457E+08
75 272 1200	75 280 0925	34	1.84000E+07	2.76122E+06
75 280 0925	75 287 0920	65	2.45000E+07	7.02789E+06
75 287 0920	75 293 0950	43	2.20000E+07	4.18769E+06
75 293 0950	75 301 1040	31	1.71000E+07	2.33904E+06

WEIR 101 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 301 1040	75 307 1040	41	1.12000E+07	2.03276E+06
75 307 1040	75 314 1330	21	1.15000E+07	1.05378E+06
75 314 1330	75 321 0920	47	2.55000E+07	5.32802E+06
75 321 0920	75 328 1150	31	1.34000E+07	1.81514E+06
75 328 1150	75 335 1145	8	1.07000E+07	3.59982E+05
WINTER 1975		16	1.69070E+08	1.11360E+07
SPRING 1975		59	2.90160E+08	1.19759E+08
SUMMER 1975		217	1.34624E+08	2.53055E+08
FALL 1975		57	2.55920E+08	1.31642E+08
TOTAL 1975		77	8.40784E+08	5.14238E+08

WEIR 101 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 335 1145	75 342 1050	4	9.95000E+06	1.54161E+05
75 342 1050	75 349 1145	7	1.16000E+07	3.44046E+05
75 349 1145	75 356 1000	27	8.62000E+06	1.03028E+06
75 356 1000	75 363 1110	42	1.62000E+07	3.04064E+06
75 363 1110	76 005 1130	464	7.67000E+07	1.57542E+08
76 005 1130	76 012 1100	34	3.71000E+07	5.56746E+06
76 012 1100	76 019 1205	15	2.02000E+07	1.32342E+06
76 019 1205	76 026 1050	.	1.44000E+07	.
76 026 1050	76 033 1205	168	6.17000E+07	4.58039E+07
76 033 1205	76 040 1038	17	2.78000E+07	2.12900E+06
76 040 1038	76 047 0900	9	1.97000E+07	7.93581E+05
76 047 0900	76 054 1020	17	1.96000E+07	1.48367E+06
76 054 1020	76 061 1000	32	1.54000E+07	2.16786E+06
76 061 1000	76 068 1040	26	1.34000E+07	1.55414E+06
76 068 1040	76 075 1058	37	2.66000E+07	4.32147E+06
76 075 1058	76 082 1050	18	1.92000E+07	1.54688E+06
76 082 1050	76 089 1050	18	1.44000E+07	1.12191E+06
76 089 1050	76 096 1045	101	2.79000E+07	1.24371E+07
76 096 1045	76 103 1033	33	1.44000E+07	2.12908E+06
76 103 1033	76 110 1040	37	1.07000E+07	1.74781E+06
76 110 1040	76 117 0950	.	8.20000E+06	.
76 117 0950	76 124 1017	56	1.26000E+07	3.09562E+06
76 124 1017	76 131 0945	15	6.31000E+06	4.30164E+05
76 131 0945	76 138 0945	13	4.82000E+06	2.68845E+05
76 138 0945	76 145 0945	21	4.54000E+06	4.24055E+05
76 145 0945	76 153 0955	40	8.00000E+06	1.40239E+06
76 153 0955	76 159 1015	15	2.51000E+06	1.63333E+05
76 159 1015	76 166 0947	17	9.74000E+05	7.24356E+04
76 166 0947	76 173 1020	80	3.75000E+06	1.32968E+06
76 173 1020	76 180 1045	42	7.90000E+05	1.47579E+05
76 180 1045	76 188 0950	112	8.14000E+05	4.01775E+05
76 188 0950	76 194 0950	67	1.13000E+06	3.37149E+05
76 194 0950	76 201 0950	164	4.65000E+06	3.36760E+06
76 201 0950	76 208 1000	43	4.40000E+05	8.43382E+04
76 208 1000	76 215 1100	43	7.20000E+05	1.35458E+05
76 215 1100	76 222 1012	653	8.27000E+06	2.39167E+07
76 222 1012	76 229 1040	227	1.16000E+07	1.16462E+07
76 229 1040	76 236 1010	32	3.03000E+06	4.29216E+05
76 236 1010	76 243 1015	74	1.44000E+06	4.72988E+05
76 243 1015	76 251 1027	55	2.15000E+05	5.26317E+04
76 251 1027	76 257 0950	66	1.23000E+05	3.60996E+04
76 251 1027	76 257 0950	.	.	.
76 251 1027	76 257 0950	.	.	.
76 257 0950	76 264 1000	31	2.26000E+06	3.13139E+05
76 264 1000	76 271 1020	13	4.53000E+05	2.56680E+04
76 271 1020	76 278 1040	45	7.69000E+06	1.53528E+06
76 278 1040	76 286 1110	94	1.92000E+07	7.99788E+06

WEIR 101 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
76 286 1110	76 292 1040	11	4.16000E+06	1.93360E+05
76 292 1040	76 300 1105	73	3.04000E+07	9.85073E+06
76 300 1105	76 306 1120	21	2.27000E+07	2.13032E+06
76 300 1105	76 306 1120	.	.	.
76 306 1120	76 313 1125	5	1.36000E+07	2.82957E+05
76 313 1125	76 320 1105	9	8.62000E+06	3.35795E+05
76 320 1105	76 327 1130	7	7.13000E+06	2.30407E+05
76 327 1130	76 334 1300	11	6.76000E+06	3.32165E+05
WINTER 1976		70	3.38970E+08	2.21380E+08
SPRING 1976		34	1.71070E+08	3.04794E+07
SUMMER 1976		121	4.01180E+07	4.25045E+07
FALL 1976		34	1.23311E+08	2.33164E+07
TOTAL 1976		65	6.73469E+08	3.17681E+08

WEIR 102 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
74 336 1055	74 343 1105	28	8.29000E+06	1.22319E+06
74 343 1105	74 350 1215	12	6.21000E+06	3.72341E+05
74 350 1215	74 357 1020	25	1.27000E+07	1.64213E+06
74 357 1020	74 364 1015	3	5.23000E+06	7.08968E+04
74 364 1025	75 006 1140	6	4.35000E+06	1.31543E+05
75 006 1140	75 013 1125	8	1.12000E+07	4.43796E+05
75 013 1125	75 020 1020	24	1.78000E+07	2.20876E+06
75 020 1020	75 027 1135	4	1.78000E+07	3.52659E+05
75 027 1135	75 034 1205	.	1.05000E+07	.
75 034 1255	75 041 1300	5	1.92000E+07	4.60480E+05
75 041 1300	75 049 1350	8	1.54000E+07	6.26277E+05
75 049 1350	75 055 1220	4	9.00000E+06	2.06465E+05
75 055 1220	75 062 1240	7	1.16000E+07	3.99166E+05
75 062 1240	75 069 1415	10	6.64000E+06	3.32346E+05
75 069 1415	75 076 1330	25	3.18000E+07	4.17810E+06
75 076 1330	75 083 1400	91	6.04000E+07	2.86569E+07
75 083 1400	75 090 1300	39	2.56000E+07	5.23212E+06
75 090 1300	75 097 1240	5	1.34000E+07	3.70282E+05
75 097 1240	75 104 1225	.	9.38000E+06	.
75 104 1225	75 111 1225	9	1.36000E+07	6.38165E+05
75 111 1225	75 118 1225	.	1.55000E+07	.
75 118 1225	75 125 1320	.	2.88000E+07	.
75 125 1320	75 132 1150	12	2.09000E+07	1.25313E+06
75 132 1150	75 139 1205	18	2.03000E+07	1.88394E+06
75 139 1205	75 147 1150	.	8.91000E+06	.
75 147 1150	75 153 1400	45	5.75000E+06	1.36105E+06
75 153 1400	75 160 1210	.	4.05000E+06	.
75 160 1210	75 167 1130	35	3.66000E+06	6.73608E+05
75 167 1130	75 174 1135	.	5.84000E+06	.
75 174 1135	75 181 .	.	1.05000E+06	.
75 181 .	75 188 1055	.	1.10000E+05	.
75 188 1055	75 195 1240	140	4.92000E+07	3.58098E+07
75 195 1240	75 202 1200	60	2.68000E+07	8.38373E+06
75 202 1200	75 209 1245	30	6.30000E+06	9.78832E+05
75 209 1245	75 216 1115	15	4.15000E+06	3.13738E+05
75 216 1115	75 223 1140	34	3.90000E+06	6.87278E+05
75 223 1140	75 230 1220	84	1.73000E+07	7.58566E+06
75 230 1220	75 237 1120	.	2.62000E+06	.
75 237 1040	75 244 1040	76	1.04000E+07	4.11554E+06
75 244 1040	75 251 1145	19	7.60000E+06	7.64755E+05
75 251 1145	75 258 1200	15	2.58000E+06	2.03118E+05
75 258 1200	75 265 1205	.	3.69000E+06	.
75 265 1205	75 272 1230	105	9.24000E+07	5.03431E+07
75 272 1230	75 280 0940	.	1.26000E+07	.
75 280 0940	75 287 0940	24	1.89000E+07	2.34526E+06
75 287 0940	75 293 1010	20	1.68000E+07	1.78686E+06
75 293 1010	75 301 1055	14	1.26000E+07	9.26277E+05

WEIR 102 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 301 1055	75 307 1050	.	8.76000E+06	.
75 307 1050	75 314 1345	20	7.61000E+06	8.01470E+05
75 314 1345	75 321 0940	23	2.33000E+07	2.81835E+06
75 321 0940	75 328 1205	18	1.09000E+07	1.01726E+06
75 328 1205	75 335 1200	15	8.14000E+06	6.15381E+05
WINTER 1975		11	1.55920E+08	8.47004E+06
SPRING 1975		28	2.60980E+08	4.39061E+07
SUMMER 1975		59	1.35380E+08	5.85482E+07
FALL 1975		27	2.25880E+08	6.16218E+07
TOTAL 1975		29	7.71520E+08	1.72214E+08

WEIR 102 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 335 1200	75 342 1100	12	7.42000E+06	4.52628E+05
75 342 1100	75 349 1205	20	9.05000E+06	9.38973E+05
75 349 1205	75 356 1010	24	6.46000E+06	8.08342E+05
75 356 1010	75 363 1120	24	1.40000E+07	1.75182E+06
75 363 1120	76 005 1145	83	7.45000E+07	3.22005E+07
76 005 1145	76 012 1130	.	3.20000E+07	.
76 012 1130	76 019 1235	10	1.61000E+07	8.14234E+05
76 019 1235	76 026 1117	.	1.43000E+07	.
76 026 1117	76 033 1235	40	5.81000E+07	1.19653E+07
76 033 1235	76 040 1057	.	1.65000E+07	.
76 040 1057	76 047 0915	.	1.48000E+07	.
76 047 0915	76 054 1055	.	1.60000E+07	.
76 054 1055	76 061 1040	.	1.29000E+07	.
76 061 1040	76 068 1100	26	1.06000E+07	1.43139E+06
76 068 1100	76 075 1115	30	2.34000E+07	3.59906E+06
76 075 1115	76 082 1110	17	1.72000E+07	1.53347E+06
76 082 1110	76 089 1110	18	1.27000E+07	1.21173E+06
76 089 1110	76 096 1105	65	2.65000E+07	8.95308E+06
76 096 1105	76 103 1052	22	1.28000E+07	1.49489E+06
76 103 1052	76 110 1110	33	8.88000E+06	1.54173E+06
76 110 1110	76 117 1010	13	6.66000E+06	4.65297E+05
76 117 1010	76 124 1040	43	1.04000E+07	2.31533E+06
76 124 1040	76 131 1008	24	4.70000E+06	5.95464E+05
76 131 1008	76 138 1010	36	3.54000E+06	6.58905E+05
76 138 1010	76 145 1005	79	3.14000E+06	1.29987E+06
76 145 1005	76 153 1020	97	6.85000E+06	3.45000E+06
76 153 1020	76 159 1035	80	1.91000E+07	8.00647E+06
76 159 1035	76 166 1010	124	4.50000E+05	2.91867E+05
76 166 1010	76 173 1035	115	2.57000E+06	1.53825E+06
76 173 1035	76 180 1112	88	.	.
76 188 1030	76 194 1022	.	2.64000E+05	.
76 194 1022	76 201 1010	164	3.53000E+06	3.02203E+06
76 201 1010	76 208 1020	34	1.39000E+04	2.44953E+03
76 208 1020	76 215 1120	91	5.80000E+04	2.74880E+04
76 215 1120	76 222 1030	138	3.37000E+06	2.43174E+06
76 222 1030	76 229 1100	86	6.32000E+06	2.83049E+06
76 229 1100	76 236 1032	24	6.64000E+05	8.44713E+04
76 236 1032	76 243 1035	72	2.71000E+05	1.01025E+05
76 243 1035	76 251 1045	.	0.00000E+00	.
76 243 1035	76 251 1045	.	.	.
76 257 1010	76 264 1025	41	2.11000E+06	4.48843E+05
76 264 1025	76 271 1040	.	1.33000E+04	.
76 271 1040	76 278 1105	.	7.04000E+06	.
76 278 1105	76 286 1140	86	1.95000E+07	8.75365E+06
76 286 1140	76 292 1100	5	3.09000E+06	8.53858E+04
76 292 1100	76 300 1145	33	3.30000E+07	5.62617E+06
76 300 1145	76 306 1150	16	1.99000E+07	1.62894E+06

WEIR 102 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
76 306 1150	76 313 1153	4	1.04000E+07	2.00626E+05
76 313 1153	76 320 1125	5	6.09000E+06	1.42883E+05
76 320 1125	76 327 1145	46	5.07000E+06	1.20538E+06
76 327 1145	76 334 1320	28	5.02000E+06	7.27612E+05
WINTER 1976		30	2.92130E+08	4.89318E+07
SPRING 1976		39	1.47370E+08	2.85502E+07
SUMMER 1976		92	3.66109E+07	1.83363E+07
FALL 1976		29	1.11233E+08	1.88195E+07
TOTAL 1976		50	5.87344E+08	1.14638E+08

WEIR 103 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
74 336 1120	74 343 1130	24	4.83000E+06	4.62812E+05
74 343 1130	74 350 1245	166	4.11000E+06	2.69678E+06
74 350 1245	74 357 1050	15	8.10000E+06	4.63131E+05
74 357 1050	74 364 1040	2	2.80000E+06	2.64984E+04
74 364 1040	75 006 1200	.	3.72000E+06	.
75 006 1200	75 013 1200	10	1.02000E+07	3.86120E+05
75 013 1200	75 020 1040	30	1.71000E+07	2.04984E+06
75 020 1040	75 027 1155	7	1.65000E+07	4.81467E+05
75 027 1155	75 034 1400	8	9.57000E+06	3.09440E+05
75 034 1400	75 041 1455	8	2.09000E+07	6.59306E+05
75 041 1455	75 049 1600	10	1.64000E+07	6.14353E+05
75 049 1600	75 055 1425	26	1.01000E+07	1.05142E+06
75 055 1425	75 062 1420	23	1.30000E+07	1.17902E+06
75 062 1420	75 069 1355	29	8.10000E+06	9.32650E+05
75 069 1355	75 076 1600	44	3.77000E+07	6.46668E+06
75 076 1600	75 083 1545	50	6.80000E+07	1.33265E+07
75 083 1545	75 090 1350	49	3.23000E+07	6.26640E+06
75 090 1350	75 097 1540	5	1.87000E+07	3.53943E+05
75 097 1540	75 104 1540	4	1.34000E+07	2.21924E+05
75 104 1540	75 111 1555	7	1.92000E+07	5.60252E+05
75 111 1555	75 118 1540	9	2.29000E+07	8.30757E+05
75 118 1540	75 125 1615	25	3.86000E+07	3.86609E+06
75 125 1615	75 132 1610	30	3.02000E+07	3.59637E+06
75 132 1610	75 139 1515	21	2.99000E+07	2.51132E+06
75 139 1515	75 147 .	16	1.48000E+07	9.27918E+05
75 147 1435	75 153 1705	44	1.01000E+07	1.75635E+06
75 153 1705	75 160 1540	19	7.29000E+06	5.54799E+05
75 160 1540	75 167 1505	61	6.65000E+06	1.59694E+06
75 167 1505	75 174 1245	322	1.25000E+07	1.58862E+07
75 174 1245	75 181 .	41	2.13000E+06	3.40162E+05
75 181 .	75 188 1310	.	3.92000E+05	.
75 188 1310	75 195 1600	188	4.75000E+07	3.51755E+07
75 195 1600	75 202 1515	121	2.91000E+07	1.38959E+07
75 202 1515	75 209 1400	35	7.22000E+06	9.96451E+05
75 209 1400	75 216 .	49	3.15000E+06	6.08636E+05
75 216 .	75 223 1450	70	4.09000E+06	1.13056E+06
75 223 1450	75 230 1530	10	1.15000E+07	4.48935E+05
75 230 1530	75 239 1040	28	7.61000E+06	8.46222E+05
75 239 1040	75 244 1220	136	5.51000E+06	2.95054E+06
75 244 1220	75 251 1415	26	4.30000E+06	4.34069E+05
75 251 1500	75 258 1500	23	2.32000E+06	2.05836E+05
75 258 1500	75 265 1500	.	3.03000E+06	.
75 265 1500	75 272 1445	188	8.88000E+07	6.59697E+07
75 272 1445	75 280 1220	.	1.65000E+07	.
75 280 1220	75 287 .	.	2.45000E+07	.
75 287 0940	75 293 1215	.	1.88000E+07	.
75 293 1215	75 301 1240	.	1.66000E+07	.

WEIR 103 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 301 1240	75 307 .	.	1.16000E+07	.
75 307 1332	75 314 .	.	1.27000E+07	.
75 314 1605	75 322 1315	.	2.94000E+07	.
75 322 1515	75 328 1600	27	1.28000E+07	1.33754E+06
75 328 1600	75 335 1555	4	1.23000E+07	2.08557E+05
WINTER 1975		28	1.45430E+08	1.13128E+07
SPRING 1975		26	3.43900E+08	4.16172E+07
SUMMER 1975		90	1.44642E+08	7.44309E+07
FALL 1975		53	2.53650E+08	6.81557E+07
TOTAL 1975		48	8.79522E+08	1.94584E+08

WEIR 103 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 335 1555	75 342 1430	4	1.13000E+07	1.96057E+05
75 342 1430	75 349 1542	7	1.35000E+07	3.56664E+05
75 349 1542	75 356 1210	.	9.74000E+06	.
75 356 1210	75 363 1330	50	1.89000E+07	3.72634E+06
75 363 1330	76 005 1500	349	8.25000E+07	1.13503E+08
76 005 1500	76 012 1500	.	4.10000E+07	.
76 012 1500	76 019 1430	7	2.28000E+07	6.20347E+05
76 019 1430	76 026 1525	.	1.84000E+07	.
76 026 1525	76 033 1525	57	7.02000E+07	1.57507E+07
76 033 1525	76 040 1605	.	3.16000E+07	.
76 040 1605	76 047 1150	18	2.27000E+07	1.60225E+06
76 047 1150	76 054 1510	34	2.41000E+07	3.18356E+06
76 054 1510	76 061 1400	32	1.91000E+07	2.44022E+06
76 061 1400	76 068 1420	35	1.78000E+07	2.42153E+06
76 068 1420	76 075 1545	42	3.35000E+07	5.56132E+06
76 075 1545	76 082 1510	21	2.51000E+07	2.06857E+06
76 082 1510	76 089 1400	18	1.97000E+07	1.42934E+06
76 089 1400	76 096 1505	24	3.43000E+07	3.19196E+06
76 096 1505	76 103 1435	26	1.92000E+07	1.99117E+06
76 103 1435	76 110 1440	45	1.50000E+07	2.66167E+06
76 110 1440	76 117 1515	34	1.24000E+07	1.65757E+06
76 117 1515	76 124 1525	493	1.80000E+07	3.49921E+07
76 124 1525	76 131 1450	9	8.14000E+06	2.82461E+05
76 131 1450	76 138 1500	16	6.03000E+06	3.87575E+05
76 138 1500	76 145 1430	28	5.93000E+06	6.50055E+05
76 145 1430	76 153 1500	81	1.28000E+07	4.07319E+06
76 153 1500	76 159 1455	10	3.17000E+06	1.18750E+05
76 159 1455	76 166 1530	27	9.57000E+05	1.03398E+05
76 166 1530	76 173 1537	39	2.20000E+06	3.35726E+05
76 173 1537	76 180 1522	23	4.77000E+05	4.26968E+04
76 188 1430	76 194 1430	.	0.00000E+00	.
76 194 1430	76 201 1500	118	2.44000E+06	1.13437E+06
76 201 1500	76 208 1435	.	3.66000E+03	.
76 208 1435	76 215 1435	.	8.32000E+04	.
76 215 1435	76 222 1445	.	9.32000E+05	.
76 222 1445	76 229 1500	96	8.02000E+06	3.04861E+06
76 229 1500	76 236 1410	29	6.57000E+05	7.51301E+04
76 236 1410	76 243 1415	.	2.85000E+02	.
76 257 1440	76 264 1425	131	3.07000E+06	1.58584E+06
76 264 1425	76 271 1445	.	7.73000E+00	.
76 271 1445	76 278 1520	92	6.74000E+06	2.45308E+06
76 278 1520	76 286 1506	102	1.62000E+07	6.54132E+06
76 286 1506	76 292 1445	10	3.45000E+06	1.34681E+05
76 292 1445	76 300 1450	107	3.51000E+07	1.47542E+07
76 300 1450	76 306 1630	20	2.08000E+07	1.67319E+06
76 306 1630	76 313 1620	6	1.31000E+07	3.09937E+05
76 313 1620	76 320 1455	4	9.12000E+06	1.36656E+05

WEIR 103 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
76 320 1455	76 327 1530	20	6.66000E+06	5.19984E+05
76 327 1530	76 334 1700	6	7.89000E+06	1.80450E+05
WINTER 1976		62	3.85840E+08	1.41379E+08
SPRING 1976		67	2.27900E+08	6.13685E+07
SUMMER 1976		49	1.89401E+07	4.85868E+06
FALL 1976		50	1.22130E+08	2.82893E+07
TOTAL 1976		58	7.54810E+08	2.35895E+08

WEIR 105 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 006 1535	75 013 1500	12	2.15000E+06	6.65067E+05
75 013 1500	75 020 1150	15	3.43000E+06	1.32627E+06
75 020 1140	75 027 1320	7	3.41000E+06	6.54720E+05
75 027 1320	75 034 1035	.	1.91000E+06	.
75 034 1035	75 041 1130	4	3.92000E+06	3.76320E+05
75 041 1130	75 049 1100	3	2.94000E+06	2.66560E+05
75 049 1100	75 055 1100	6	1.74000E+06	2.96960E+05
75 055 1100	75 062 1120	6	2.33000E+06	3.85227E+05
75 062 1120	75 069 1050	.	1.50000E+06	.
75 069 1050	75 076 1150	34	6.44000E+06	5.77024E+06
75 076 1150	75 083 1220	117	1.22000E+07	3.80640E+07
75 083 1220	75 090 1110	16	5.53000E+06	2.40371E+06
75 090 1110	75 097 1110	12	2.83000E+06	8.90507E+05
75 097 1110	75 104 1105	.	1.82000E+06	.
75 104 1105	75 111 1050	.	2.65000E+06	.
75 111 1050	75 118 1100	10	3.19000E+06	8.50667E+05
75 118 1100	75 125 1130	20	5.68000E+06	3.05963E+06
75 125 1130	75 132 1040	19	3.77000E+06	1.86992E+06
75 132 1040	75 139 1040	18	4.08000E+06	1.91488E+06
75 139 1040	75 147 1035	.	1.66000E+06	.
75 147 1035	75 153 1030	106	1.08000E+06	3.05856E+06
75 153 1030	75 160 1030	.	6.12000E+05	.
75 160 1030	75 167 1010	.	5.28000E+05	.
75 167 1010	75 174 1040	.	2.88000E+05	.
75 174 1040	75 181 .	.	4.02000E+04	.
75 181 .	75 188 0945	.	1.17000E+04	.
75 188 0945	75 195 1040	348	8.64000E+06	8.01562E+07
75 195 1040	75 202 1030	66	4.77000E+06	8.40792E+06
75 202 1030	75 209 1100	.	1.10000E+06	.
75 209 1100	75 216 1005	136	5.06000E+05	1.83374E+06
75 216 1005	75 223 1040	.	3.96000E+05	.
75 223 1040	75 230 1120	305	1.50000E+06	1.22120E+07
75 230 1120	75 237 0956	.	1.85000E+05	.
75 237 0956	75 244 0940	41	1.55000E+06	1.67813E+06
75 244 0940	75 251 1015	15	1.05000E+06	4.28400E+05
75 251 1045	75 258 1045	.	3.21000E+05	.
75 258 1040	75 265 1040	.	5.20000E+05	.
75 265 1040	75 272 1030	103	2.27000E+07	6.24704E+07
75 272 0840	75 280 0840	.	2.63000E+03	.
75 280 0840	75 287 0850	87	3.89000E+06	9.03517E+06
75 287 0850	75 293 0850	.	4.64000E+06	.
75 293 0850	75 301 0955	.	3.03000E+06	.
75 301 0955	75 307 0840	.	1.64000E+06	.
75 307 0840	75 314 1240	.	1.43000E+06	.
75 314 1240	75 321 1145	43	4.08000E+06	4.72192E+06
75 321 1145	75 328 1035	.	1.90000E+06	.
75 328 1035	75 335 1040	.	1.37000E+06	.

WEIR 105 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
WINTER 1975		8	2.33300E+07	3.97112E+06
SPRING 1975		39	5.24300E+07	5.78821E+07
SUMMER 1975		179	2.01269E+07	1.04288E+08
FALL 1975		62	4.65736E+07	7.66559E+07
TOTAL 1975		62	1.40961E+08	2.42797E+08

WEIR 105 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 335 1040	75 342 1000	.	1.12000E+06	.
75 342 1000	75 349 1100	.	1.34000E+06	.
75 349 1100	75 356 0915	.	8.87000E+05	.
75 356 0915	75 363 1010	.	2.28000E+06	.
75 363 1010	76 005 0930	204	1.70000E+07	9.24800E+07
76 005 0930	76 012 0900	60	6.78000E+06	1.07757E+07
76 012 0900	76 019 1030	.	3.19000E+06	.
76 019 1030	76 026 1255	.	2.38000E+06	.
76 026 1255	76 033 1055	51	1.22000E+07	1.65595E+07
76 033 1055	76 040 0913	7	4.89000E+06	8.99760E+05
76 040 0913	76 047 0757	.	3.13000E+06	.
76 047 0757	76 054 0920	.	3.21000E+06	.
76 054 0920	76 061 0910	9	2.43000E+06	5.63760E+05
76 061 0910	76 068 0940	24	1.91000E+06	1.21221E+06
76 068 0940	76 075 0948	22	4.45000E+06	2.61067E+06
76 075 0948	76 082 0940	7	3.64000E+06	6.50347E+05
76 082 0940	76 089 0955	10	2.30000E+06	6.07200E+05
76 089 0955	76 096 0945	23	4.91000E+06	2.99837E+06
76 096 0945	76 103 0940	25	2.18000E+06	1.47077E+06
76 103 0940	76 110 0940	27	1.55000E+06	1.11187E+06
76 110 0940	76 117 0850	30	1.10000E+06	8.80000E+05
76 117 0850	76 124 0915	41	1.87000E+06	2.01960E+06
76 124 0915	76 131 0845	12	5.75000E+05	1.76333E+05
76 131 0845	76 138 0845	14	5.44000E+05	2.00192E+05
76 138 0845	76 145 0845	20	4.13000E+05	2.20267E+05
76 145 0845	76 153 0855	15	8.03000E+05	3.14776E+05
76 153 0855	76 159 0934	18	1.53000E+05	7.30320E+04
76 159 0934	76 166 0834	31	2.20000E+04	1.78933E+04
76 166 0834	76 173 0936	65	3.57000E+05	6.14040E+05
76 173 0930	76 180 0935	91	2.81000E+04	6.84891E+04
76 180 0935	76 188 0830	.	1.31000E+04	.
76 188 0830	76 194 0855	38	5.16000E+04	5.16000E+04
76 194 0855	76 201 0845	78	4.08000E+05	8.48640E+05
76 201 0845	76 208 0840	42	1.20000E+04	1.34720E+04
76 208 0840	76 215 0932	49	5.79000E+04	7.51928E+04
76 215 0932	76 222 0905	360	3.44000E+06	3.29873E+07
76 222 0905	76 229 0930	45	1.32000E+06	1.58048E+06
76 229 0930	76 236 0905	31	1.41000E+05	1.15432E+05
76 236 0905	76 243 0918	28	2.12000E+04	1.60555E+04
76 243 0918	76 251 0900	22	1.18000E+04	6.98560E+03
76 251 0900	76 257 0904	20	6.49000E+03	3.40941E+03
76 257 0904	76 264 0900	13	7.22000E+04	2.50293E+04
76 264 0900	76 271 0920	17	9.13000E+03	4.01720E+03
76 271 0920	76 278 0924	16	6.04000E+05	2.54485E+05
76 278 0924	76 286 0940	21	2.19000E+06	1.22056E+06
76 286 0940	76 292 0930	11	4.30000E+05	1.20400E+05
76 292 0930	76 300 0930	21	6.12000E+06	3.45984E+06

WEIR 105 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
76 300 0930	76 306 1000	9	4.51000E+06	1.04632E+06
76 306 1000	76 313 1015	5	2.27000E+06	2.72400E+05
76 313 1015	76 320 0950	7	1.22000E+06	2.24480E+05
76 320 0950	76 327 1005	5	9.06000E+05	1.13552E+05
76 327 1005	76 334 1130	.	9.14000E+05	.
WINTER 1976		66	6.08370E+07	1.21279E+08
SPRING 1976		21	2.62450E+07	1.44726E+07
SUMMER 1976		73	6.02490E+06	3.64616E+07
FALL 1976		14	1.92636E+07	6.75148E+06
TOTAL 1976		39	1.12371E+08	1.78964E+08

WEIR 106 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 007 1605	75 013 1520	15	5.19000E+06	7.95110E+05
75 013 1520	75 020 1150	17	5.79000E+06	1.03284E+06
75 020 1150	75 027 1340	7	6.34000E+06	4.52382E+05
75 027 1340	75 034 1050	10	4.30000E+06	4.51207E+05
75 034 1050	75 041 1145	8	6.39000E+06	5.63232E+05
75 041 1145	75 049 1120	7	6.28000E+06	4.48101E+05
75 049 1120	75 055 1120	5	3.69000E+06	1.97471E+05
75 055 1120	75 062 1135	5	4.76000E+06	2.59727E+05
75 062 1135	75 069 1120	.	2.68000E+06	.
75 069 1120	75 076 1205	55	1.37000E+07	7.93536E+06
75 076 1205	75 083 1240	264	2.61000E+07	7.22474E+07
75 083 1240	75 090 1130	32	1.09000E+07	3.68290E+06
75 090 1130	75 097 1125	6	6.59000E+06	4.01070E+05
75 097 1125	75 104 1125	4	5.47000E+06	2.23851E+05
75 104 1125	75 111 1105	12	7.82000E+06	9.92886E+05
75 111 1105	75 118 1110	11	1.09000E+07	1.23526E+06
75 118 1110	75 125 1150	25	1.77000E+07	4.69895E+06
75 125 1150	75 132 1055	21	8.35000E+06	1.85750E+06
75 132 1055	75 139 1100	33	8.81000E+06	3.06917E+06
75 139 1100	75 147 1055	.	3.53000E+06	.
75 147 1055	75 153 1045	104	2.79000E+06	3.05056E+06
75 153 1045	75 160 1055	31	4.53000E+06	1.48306E+06
75 160 1055	75 167 1030	79	4.32000E+06	3.56751E+06
75 167 1030	75 174 1020	.	3.81000E+06	.
75 174 1020	75 181 .	.	1.74000E+06	.
75 181 .	75 188 1015	.	8.92000E+05	.
75 188 1015	75 195 1050	943	2.37000E+07	2.34414E+08
75 195 1050	75 202 .	152	1.14000E+07	1.81347E+07
75 202 .	75 209 1145	49	2.58000E+06	1.32925E+06
75 209 1145	75 216 1020	346	1.71000E+06	6.20660E+06
75 216 1020	75 223 1055	106	1.37000E+06	1.52382E+06
75 223 1055	75 230 1130	434	5.59000E+06	2.54571E+07
75 230 1130	75 237 1013	.	7.39000E+05	.
75 237 1013	75 244 0930	46	4.93000E+06	2.39516E+06
75 244 0930	75 251 1040	103	2.62000E+06	2.82344E+06
75 251 1100	75 258 1100	.	7.00000E+05	.
75 258 1100	75 265 1100	55	1.72000E+06	9.99874E+05
75 265 1100	75 272 1040	411	5.13000E+07	2.21241E+08
75 272 1040	75 280 0850	28	6.10000E+06	1.76663E+06
75 280 0850	75 287 0855	.	8.64000E+06	.
75 287 0855	75 293 0900	69	1.01000E+07	7.29150E+06
75 293 0900	75 301 1005	48	6.64000E+06	3.32348E+06
75 301 1005	75 307 0850	59	4.20000E+06	2.58258E+06
75 307 0850	75 314 1250	64	4.12000E+06	2.78413E+06
75 314 1250	75 321 1155	104	1.06000E+07	1.15454E+07
75 321 1155	75 328 1040	35	4.86000E+06	1.78489E+06
75 328 1040	75 335 1055	25	3.91000E+06	1.03802E+06

WEIR 106 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
WINTER 1975		9	4.54200E+07	4.20007E+06
SPRING 1975		52	1.25340E+08	9.93949E+07
SUMMER 1975		243	6.73110E+07	2.94511E+08
FALL 1975		91	1.15510E+08	2.57181E+08
TOTAL 1975		98	3.50901E+08	6.55287E+08

WEIR 106 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 335 1055	75 342 1010	15	3.49000E+06	5.60304E+05
75 342 1010	75 349 1105	22	4.30000E+06	9.83631E+05
75 349 1105	75 356 0925	88	2.92000E+06	2.70552E+06
75 356 0925	75 363 1015	.	6.42000E+06	.
75 363 1015	76 005 1040	73	3.50000E+07	2.67366E+07
76 005 1040	76 012 0915	42	1.36000E+07	5.92235E+06
76 012 0915	76 019 1035	.	6.89000E+06	.
76 019 1035	76 026 1013	.	4.59000E+06	.
76 026 1013	76 033 1545	132	2.82000E+07	3.90598E+07
76 033 1545	76 040 0932	.	1.04000E+07	.
76 040 0932	76 047 0810	.	7.46000E+06	.
76 047 0810	76 054 0935	.	7.61000E+06	.
76 054 0935	76 061 0925	.	5.62000E+06	.
76 061 0925	76 068 1000	.	4.99000E+06	.
76 068 1000	76 075 1015	40	1.04000E+07	4.33242E+06
76 075 1015	76 082 0950	.	7.29000E+06	.
76 082 0950	76 089 1015	.	5.60000E+06	.
76 089 1015	76 096 1000	.	1.09000E+07	.
76 096 1000	76 103 0957	.	5.19000E+06	.
76 103 0957	76 110 0955	.	3.79000E+06	.
76 110 0955	76 117 0905	.	3.00000E+06	.
76 117 0905	76 124 0937	76	4.90000E+06	3.88709E+06
76 124 0937	76 131 0910	21	1.83000E+06	4.01333E+05
76 131 0910	76 138 0905	51	1.45000E+06	7.77492E+05
76 138 0905	76 145 0905	72	1.50000E+06	1.12697E+06
76 145 0905	76 153 0920	65	3.00000E+06	2.03043E+06
76 153 0920	76 159 0852	36	9.82000E+05	3.67864E+05
76 159 0852	76 166 0850	65	1.49000E+05	1.01157E+05
76 166 0850	76 173 0950	.	1.33000E+06	.
76 173 0950	76 180 1000	.	1.39000E+05	.
76 180 1000	76 188 0900	160	1.19000E+05	1.99915E+05
76 188 0900	76 194 0900	.	2.60000E+05	.
76 194 0900	76 201 0915	.	1.59000E+06	.
76 201 0915	76 208 0925	.	2.87000E+04	.
76 208 0925	76 215 0950	.	1.76000E+05	.
76 215 0950	76 222 0930	336	9.15000E+06	3.22794E+07
76 222 0930	76 229 1000	68	4.24000E+06	3.02094E+06
76 229 1000	76 236 0933	33	5.50000E+05	1.91028E+05
76 236 0933	76 243 0940	77	1.64000E+05	1.31647E+05
76 243 0940	76 251 0945	.	2.58000E+04	.
76 257 0915	76 264 0940	.	2.46000E+05	.
76 271 0940	76 278 0945	68	1.54000E+06	1.09238E+06
76 278 0945	76 286 1000	92	6.77000E+06	6.55688E+06
76 286 1000	76 292 0955	33	1.43000E+06	4.90672E+05
76 292 0955	76 300 0950	.	1.22000E+07	.
76 300 0950	76 306 1020	37	7.84000E+06	3.06854E+06
76 306 1020	76 313 1040	13	3.62000E+06	5.05205E+05

WEIR 106 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
76 313 1040	76 320 1017	.	2.12000E+06	.
76 320 1017	76 327 1030	21	1.73000E+06	3.75771E+05
76 327 1030	76 334 1205	.	1.86000E+06	.
WINTER 1976		62	1.36500E+08	7.59682E+07
SPRING 1976		54	6.38400E+07	1.25557E+07
SUMMER 1976		111	1.88777E+07	3.62920E+07
FALL 1976		44	3.93818E+07	1.20895E+07
TOTAL 1976		69	2.58599E+08	1.36905E+08

WEIR 107 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
74 336 1500	74 343 1400	.	1.18000E+06	.
74 343 1400	74 350 1610	125	1.53000E+06	6.76564E+06
74 350 1610	74 357 1345	21	1.08000E+06	7.88936E+05
74 357 1345	74 364 1330	.	5.51000E+05	.
74 364 1330	75 006 1000	.	5.93000E+05	.
75 006 1000	75 013 1600	186	2.58000E+06	1.69804E+07
75 013 1600	75 021 1220	46	2.94000E+06	4.82702E+06
75 021 1220	75 027 1020	39	2.34000E+06	3.23617E+06
75 027 1020	75 034 0955	.	1.80000E+06	.
75 034 0955	75 041 1030	8	4.05000E+06	1.19202E+06
75 041 1030	75 049 1025	181	3.04000E+06	1.94582E+07
75 049 1025	75 055 1020	62	1.74000E+06	3.83787E+06
75 055 1020	75 062 1040	71	2.43000E+06	6.13532E+06
75 062 1040	75 069 1000	.	1.45000E+06	.
75 069 1120	75 076 1045	149	6.52000E+06	3.45421E+07
75 076 1045	75 083 1110	245	7.84000E+06	6.80023E+07
75 083 1110	75 090 1030	48	4.25000E+06	7.24911E+06
75 090 1030	75 097 1025	17	3.49000E+06	2.12865E+06
75 097 1025	75 104 .	.	2.05000E+06	.
75 104 .	75 111 1015	57	2.28000E+06	4.64085E+06
75 111 1015	75 118 1005	21	2.40000E+06	1.78723E+06
75 118 1005	75 125 1045	120	4.05000E+06	1.72197E+07
75 125 1045	75 132 1000	102	2.93000E+06	1.05771E+07
75 132 1000	75 139 0950	88	3.73000E+06	1.16529E+07
75 139 0950	75 147 0950	.	1.61000E+06	.
75 147 0950	75 153 0945	463	1.15000E+06	1.88812E+07
75 153 0945	75 160 0940	.	1.06000E+06	.
75 160 0940	75 167 0935	.	9.51000E+05	.
75 167 0935	75 174 1107	.	9.19000E+05	.
75 174 1107	75 181 .	.	4.55000E+05	.
75 181 .	75 188 0910	.	2.42000E+05	.
75 188 0910	75 195 0955	1000	4.22000E+06	1.49690E+08
75 195 0955	75 202 1000	270	3.68000E+06	3.52732E+07
75 202 1000	75 209 1015	30	1.49000E+06	1.59039E+06
75 209 1015	75 216 .	.	6.43000E+05	.
75 216 .	75 223 1000	.	7.57000E+05	.
75 223 1000	75 230 1045	719	8.28000E+05	2.11169E+07
75 230 1045	75 237 0908	.	4.52000E+05	.
75 237 0908	75 244 0855	8	8.49000E+05	2.43862E+05
75 244 0855	75 251 0935	10	8.00000E+05	2.95035E+05
75 251 1000	75 258 1000	.	4.49000E+05	.
75 258 1015	75 265 1015	.	.	.
75 265 1015	75 272 0950	193	.	.
WINTER 1975		82	2.73040E+07	6.32216E+07
SPRING 1975		131	4.37500E+07	1.76681E+08

WEIR 107 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
SUMMER 1975		406	1.65460E+07	2.07915E+08
FALL 1975		101	1.24900E+06	2.95035E+05
TOTAL 1975		165	8.73990E+07	4.48112E+08

WEIR 107 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
76 154 1630	76 159 0810	2	4.16000E+05	2.80284E+04
76 159 0810	76 166 0750	21	3.55000E+05	2.60585E+05
76 166 0750	76 173 0850	200	8.08000E+05	5.72763E+06
76 173 0850	76 180 0840	13	2.81000E+05	1.29539E+05
76 180 0840	76 188 0750	32	2.06000E+05	2.31567E+05
76 188 0750	76 194 0800	72	2.11000E+05	5.40220E+05
76 194 0800	76 201 0806	171	6.72000E+05	4.06536E+06
76 201 0806	76 208 0805	50	1.41000E+05	2.52000E+05
76 208 0805	76 215 0845	66	9.69000E+04	2.27818E+05
76 215 0845	76 222 0820	649	1.43000E+06	3.29103E+07
76 222 0820	76 229 0850	110	9.24000E+05	3.61409E+06
76 229 0850	76 236 0812	13	1.90000E+05	8.82624E+04
76 236 0812	76 243 0840	35	6.83000E+04	8.38007E+04
76 243 0840	76 251 0815	555	2.20000E+03	4.32901E+04
76 257 0825	76 264 0830	34	6.19000E+04	7.41922E+04
76 264 0830	76 271 0840	.	0.00000E+00	.
76 271 0840	76 278 0840	91	5.19000E+05	1.66559E+06
76 278 0840	76 286 0900	63	1.70000E+06	3.77376E+06
76 286 0900	76 292 0840	8	4.63000E+05	1.32989E+05
76 292 0840	76 300 0900	22	2.40000E+06	1.83830E+06
76 300 0900	76 306 0930	11	1.88000E+06	7.20000E+05
76 306 0930	76 313 0940	5	9.90000E+05	1.57979E+05
76 313 0940	76 320 0910	18	6.96000E+05	4.49191E+05
76 320 0910	76 327 0930	9	5.82000E+05	1.85745E+05
76 327 0930	76 334 1040	7	3.91000E+05	9.42837E+04
WINTER 1976		.	.	.
SPRING 1976		.	.	.
SUMMER 1976		110	5.79920E+06	4.81592E+07
FALL 1976		75	9.68510E+06	9.13531E+06
TOTAL 1976		94	1.54843E+07	5.72945E+07

WEIR 108 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
74 336 1200	74 343 1220	48	6.50000E+06	2.05286E+06
74 343 1220	74 350 1325	41	7.07000E+06	1.91793E+06
74 350 1325	74 357 1120	40	8.92000E+06	2.36048E+06
74 357 1120	74 364 1110	3	2.57000E+06	5.12633E+04
74 364 1110	75 006 1315	5	3.18000E+06	1.01489E+05
75 006 1315	75 013 1245	6	6.23000E+06	2.56822E+05
75 013 1245	75 020 1110	17	1.15000E+07	1.29987E+06
75 020 1110	75 027 1240	6	1.05000E+07	4.46809E+05
75 027 1240	75 034 1340	4	6.94000E+06	2.03032E+05
75 034 1340	75 041 1340	6	1.27000E+07	4.81316E+05
75 041 1340	75 049 1455	26	1.06000E+07	1.84654E+06
75 049 1455	75 055 1345	5	6.55000E+06	2.04687E+05
75 055 1345	75 062 1340	9	8.26000E+06	4.83298E+05
75 062 1340	75 069 1230	20	5.57000E+06	7.55505E+05
75 069 1230	75 076 1445	59	4.41000E+07	1.72999E+07
75 076 1445	75 083 1500	44	3.64000E+07	1.06731E+07
75 083 1500	75 090 1405	30	2.49000E+07	4.96676E+06
75 090 1405	75 097 1510	4	1.12000E+07	2.68085E+05
75 097 1510	75 104 1525	5	8.94000E+06	2.85319E+05
75 104 1525	75 111 1530	10	1.20000E+07	8.13830E+05
75 111 1530	75 118 1500	20	1.22000E+07	1.63045E+06
75 118 1500	75 125 1545	24	2.28000E+07	3.65346E+06
75 125 1545	75 132 1545	57	1.93000E+07	7.32733E+06
75 132 1545	75 139 1440	33	1.19000E+07	2.57148E+06
75 139 1440	75 147 1415	16	9.20000E+06	9.60372E+05
75 147 1415	75 153 1630	75	9.92000E+06	4.92043E+06
75 153 1630	75 160 1510	25	6.59000E+06	1.07789E+06
75 160 1510	75 167 1400	74	6.61000E+06	3.24347E+06
75 167 1400	75 174 1300	219	4.48000E+06	6.52638E+06
75 174 1300	75 181 .	83	1.95000E+06	1.07094E+06
75 181 .	75 188 1230	47	6.73000E+05	2.12102E+05
75 188 1230	75 195 1515	147	4.57000E+07	4.46365E+07
75 195 1515	75 202 1440	20	2.51000E+07	3.37114E+06
75 202 1440	75 209 1330	43	6.67000E+06	1.90255E+06
75 209 1330	75 216 .	42	2.61000E+06	7.27121E+05
75 216 .	75 223 1400	32	6.27000E+06	1.34655E+06
75 223 1400	75 230 1515	21	8.58000E+06	1.21512E+06
75 230 1515	75 237 1345	.	1.56000E+06	.
75 237 1345	75 244 1155	86	9.72000E+06	5.54505E+06
75 244 1155	75 251 1325	36	4.44000E+06	1.05981E+06
75 251 1325	75 258 1445	.	1.63000E+06	.
75 258 1445	75 265 1440	39	3.49000E+06	9.11948E+05
75 265 1440	75 272 1415	.	1.14000E+08	.
75 272 1415	75 280 1150	32	1.32000E+07	2.80851E+06
75 280 1150	75 287 1220	87	2.13000E+07	1.23495E+07
75 287 1220	75 293 1145	48	1.72000E+07	5.48936E+06
75 293 1145	75 301 1210	90	1.32000E+07	7.87261E+06

WEIR 108 1975 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 301 1210	75 307 1320	58	8.68000E+06	3.37043E+06
75 307 1320	75 314 1545	49	8.49000E+06	2.77731E+06
75 314 1545	75 322 1255	107	2.23000E+07	1.58799E+07
75 322 1255	75 328 1540	38	8.63000E+06	2.19767E+06
75 328 1540	75 335 1520	11	8.23000E+06	6.01928E+05
WINTER 1975		17	1.07090E+08	1.24619E+07
SPRING 1975		30	2.28430E+08	5.61260E+07
SUMMER 1975		70	1.26513E+08	7.08748E+07
FALL 1975		54	2.44790E+08	5.53189E+07
TOTAL 1975		42	7.01253E+08	1.94026E+08

WEIR 108 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
75 335 1520	75 342 1400	16	7.60000E+06	8.03457E+05
75 342 1400	75 349 1515	20	8.45000E+06	1.14053E+06
75 349 1515	75 356 1130	54	6.45000E+06	2.29438E+06
75 356 1130	75 363 1300	60	1.29000E+07	5.10339E+06
75 363 1300	76 005 1430	106	6.84000E+07	4.83894E+07
76 005 1430	76 012 1415	.	4.48000E+07	.
76 012 1415	76 019 1400	32	1.55000E+07	3.26695E+06
76 019 1400	76 026 1500	.	1.25000E+07	.
76 026 1500	76 033 1450	37	7.20000E+07	1.74734E+07
76 033 1450	76 040 1515	41	2.41000E+07	6.50572E+06
76 040 1515	76 047 1125	33	1.43000E+07	3.16616E+06
76 047 1125	76 054 1430	57	1.44000E+07	5.47660E+06
76 054 1430	76 061 1325	111	1.11000E+07	8.16263E+06
76 061 1325	76 068 1340	120	1.01000E+07	8.06523E+06
76 068 1340	76 075 1305	198	1.76000E+07	2.31117E+07
76 075 1305	76 082 1445	78	1.25000E+07	6.49102E+06
76 082 1445	76 089 1315	141	1.04000E+07	9.71543E+06
76 089 1315	76 096 1415	216	1.81000E+07	2.59345E+07
76 096 1415	76 103 1318	.	9.90000E+06	.
76 103 1318	76 110 1340	84	8.16000E+06	4.57372E+06
76 110 1340	76 117 1307	44	6.78000E+06	1.96097E+06
76 117 1307	76 124 1330	109	9.58000E+06	6.93658E+06
76 121 1500	76 124 1330	.	.	.
76 124 1330	76 131 1235	25	4.33000E+06	7.28384E+05
76 131 1235	76 138 1340	142	4.11000E+06	3.87499E+06
76 138 1340	76 145 1310	192	4.61000E+06	5.87591E+06
76 145 1310	76 153 1320	534	7.07000E+06	2.51164F+07
76 153 1320	76 159 1345	59	1.71000E+06	6.70811E+05
76 159 1345	76 166 1345	197	3.47000E+05	4.54515E+05
76 166 1345	76 173 1425	.	1.28000E+07	.
76 173 1425	76 180 1400	30	6.33000E+05	1.26263E+05
76 188 1300	76 194 1308	718	5.86000E+05	2.79558E+06
76 194 1308	76 201 1300	709	5.80000E+06	2.73456E+07
76 201 1300	76 208 1325	36	4.28000E+03	1.03301E+03
76 208 1325	76 215 1315	92	8.47000E+04	5.17549E+04
76 215 1315	76 222 1305	827	6.63000E+06	3.64386E+07
76 222 1305	76 229 1325	121	6.59000E+06	5.27989E+06
76 229 1325	76 236 1235	20	4.80000E+05	6.51064E+04
76 236 1235	76 243 1255	33	4.94000E+05	1.09048E+05
76 243 1255	76 251 1330	14	3.30000E+02	2.98404E+01
76 251 1330	76 257 1340	.	0.00000E+00	.
76 257 1340	76 264 1305	15	4.84000E+05	4.73059E+04
76 264 1305	76 271 1330	13	0.00000E+00	0.00000E+00
76 271 1330	76 278 1340	34	3.91000E+06	8.76110E+05
76 278 1340	76 286 1350	130	1.69000E+07	1.45515E+07
76 286 1350	76 292 1320	6	1.59000E+06	6.55452E+04
76 292 1320	76 300 1330	53	2.43000E+07	8.62779E+06

WEIR 108 1976 TOTAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (UG/L)	TOTAL FLOW (L)	AREA YIELD (UG/HA)
76 300 1330	76 306 1505	24	1.51000E+07	2.35937E+06
76 306 1505	76 313 1455	4	6.31000E+06	1.59428E+05
76 313 1455	76 320 1335	1	4.41000E+06	2.34574E+04
76 320 1335	76 327 1400	3	3.81000E+06	7.59973E+04
76 327 1400	76 334 1555	7	4.20000E+06	1.95479E+05
WINTER 1976		51	3.12500E+08	1.01783E+08
SPRING 1976		157	1.23240E+08	1.22385E+08
SUMMER 1976		258	3.61590E+07	7.33382E+07
FALL 1976		25	8.10143E+07	2.69820E+07
TOTAL 1976		122	5.52913E+08	3.24488E+08

WEIR 101 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
74 336 1030	. . .	.	2.39000E+01	.
74 343 1045	. . .	.	2.51000E+01	.
74 350 1130	. . .	.	1.42000E+02	.
74 357 1000	. . .	.	8.27000E+00	.
74 364 0925	. . .	.	7.10000E+00	.
75 006 1115	. . .	.	6.05000E+00	.
75 013 1100	. . .	.	4.51000E+01	.
75 020 1000	. . .	.	5.97000E+01	.
75 027 1105	. . .	.	2.28000E+01	.
75 034 1145	. . .	.	1.76000E+01	.
75 041 1240	. . .	.	2.06000E+01	.
75 049 1340	. . .	.	2.17000E+01	.
75 055 1205	. . .	.	2.75000E+01	.
75 062 1225	. . .	.	1.49000E+01	.
75 069 1210	. . .	.	1.32000E+01	.
75 076 1320	. . .	.	7.70000E+01	.
75 083 1340	. . .	.	6.17000E+01	.
75 090 1245	. . .	.	4.85000E+01	.
75 097 1215	. . .	.	2.39000E+01	.
75 104 1210	. . .	.	1.96000E+01	.
75 111 1205	. . .	.	1.86000E+01	.
75 118 1205	. . .	.	2.63000E+01	.
75 125 1305	. . .	.	5.03000E+01	.
75 132 1135	. . .	.	2.28000E+01	.
75 139 1150	. . .	.	2.28000E+01	.
75 147 1130	. . .	.	1.49000E+01	.
75 153 1355	. . .	.	1.76000E+01	.
75 160 1150	. . .	.	6.56000E+00	.
75 167 .	. . .	.	5.55000E+00	.
75 174 1125	. . .	.	3.46000E+00	.
75 181 .	. . .	15	2.78000E+00	1.78442E-01
75 188 1045	. . .	80	1.93000E+00	6.86906E-01
75 195 1220	. . .	.	3.05000E+02	.
75 202 1140	. . .	.	6.59000E+01	.
75 209 1205	. . .	.	7.10000E+00	.
75 216 1100	. . .	.	3.11000E+00	.
75 223 1130	. . .	.	5.09000E+00	.
75 230 1200	. . .	.	2.28000E+01	.
75 237 1105	. . .	.	5.09000E+00	.
75 244 1020	. . .	.	4.18000E+01	.
75 251 1130	. . .	.	1.24000E+01	.
75 258 1145	. . .	22	4.23000E+00	4.13825E-01
75 265 1150	. . .	.	7.10000E+00	.
75 272 1200	. . .	.	4.02000E+01	.
75 280 0925	. . .	.	1.86000E+01	.
75 287 0920	. . .	.	2.63000E+01	.
75 293 0950	. . .	.	3.56000E+01	.

WEIR 101 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 301 1040	. . .	.	2.88000E+01	.
75 307 1040	. . .	.	1.86000E+01	.
75 314 1330	. . .	.	1.96000E+01	.
75 321 0920	. . .	.	2.39000E+01	.
75 328 1150	. . .	.	1.96000E+01	.
WINTER 1975		.	4.42320E+02	.
SPRING 1975		.	4.32100E+02	.
SUMMER 1975		47	4.93770E+02	8.65347E-01
FALL 1975		22	2.96730E+02	4.13825E-01
TOTAL 1975		39	1.59062E+03	1.27917E+00

WEIR 101 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1145	. . .	.	2.28000E+01	.
75 342 1050	. . .	.	1.67000E+01	.
75 349 1145	. . .	.	1.67000E+01	.
75 356 1000	. . .	.	1.32000E+01	.
75 363 1110	. . .	.	2.17000E+01	.
76 005 1130	. . .	.	4.51000E+01	.
76 012 1100	. . .	.	4.02000E+01	.
76 019 1205	. . .	.	2.17000E+01	.
76 026 1050	. . .	19	3.14000E+01	2.68269E+00
76 033 1205	. . .	.	9.69000E+01	.
76 040 1038	. . .	.	3.28000E+01	.
76 047 0900	. . .	.	3.01000E+01	.
76 054 1020	. . .	.	3.28000E+01	.
76 061 1000	. . .	.	2.17000E+01	.
76 068 1040	. . .	.	1.96000E+01	.
76 075 1058	. . .	.	3.01000E+01	.
76 082 1050	. . .	.	2.28000E+01	.
76 089 1050	. . .	.	2.28000E+01	.
76 096 1045	. . .	.	3.28000E+01	.
76 103 1033	. . .	.	1.96000E+01	.
76 110 1040	. . .	.	1.67000E+01	.
76 117 0950	. . .	31	1.24000E+01	1.67419E+00
76 124 1017	. . .	.	2.06000E+01	.
76 131 0945	. . .	.	8.27000E+00	.
76 138 0945	. . .	.	8.27000E+00	.
76 145 0945	. . .	.	3.46000E+00	.
76 153 0955	. . .	.	1.09000E+01	.
76 159 1015	. . .	.	3.11000E+00	.
76 166 0947	. . .	.	1.07000E+00	.
76 173 1020	. . .	.	3.11000E+00	.
76 180 1045	. . .	.	3.88000E+01	.
76 188 0950	. . .	.	1.59000E+01	.
76 188 0950	. . .	.	.	.
76 188 0950	. . .	.	0.00000E+00	.
76 188 0950	. . .	.	.	.
76 194 0950	. . .	.	2.19000E+00	.
76 201 0950	. . .	.	2.19000E+00	.
76 215 1100	. . .	.	1.59000E+01	.
76 222 1012	. . .	.	7.24000E+01	.
76 229 1040	. . .	.	3.28000E+01	.
76 236 1010	. . .	.	1.69000E+00	.
76 243 1015	. . .	.	7.47000E+01	.
76 264 1000	. . .	.	1.07000E+00	.
76 271 1020	. . .	.	8.99000E+01	.
76 278 1040	. . .	.	1.32000E+01	.
76 286 1110	. . .	.	1.24000E+01	.
76 292 1040	. . .	.	7.67000E+00	.

WEIR 101 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
76 300 1105	. . .	.	1.08000E+02	.
76 313 1125	. . .	.	3.28000E+01	.
76 320 1105	. . .	.	1.32000E+01	.
76 327 1130	. . .	.	1.02000E+01	.
76 334 1300	. . .	.	2.88000E+01	.
WINTER 1976		19	4.43800E+02	2.68269E+00
SPRING 1976		31	2.50000E+02	1.67419E+00
SUMMER 1976		.	2.74760E+02	.
FALL 1976		.	3.91940E+02	.
TOTAL 1976		25	1.25320E+03	4.35688E+00

WEIR 102 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
74 336 1055	. . .	.	2.51000E+01	.
74 343 1105	. . .	.	1.96000E+01	.
74 350 1215	. . .	.	2.23000E+02	.
74 364 1015	. . .	.	9.54000E+00	.
75 006 1140	. . .	.	5.09000E+00	.
75 013 1125	. . .	.	3.14000E+01	.
75 027 1135	. . .	.	2.06000E+01	.
75 034 1205	. . .	4	1.40000E+01	3.21168E-01
75 041 1300	. . .	.	2.06000E+01	.
75 049 1350	. . .	.	1.96000E+01	.
75 055 1220	. . .	.	2.39000E+01	.
75 062 1240	. . .	.	1.24000E+01	.
75 069 1415	. . .	.	1.02000E+01	.
75 076 1330	. . .	.	7.47000E+01	.
75 083 1400	. . .	.	6.59000E+01	.
75 090 1300	. . .	.	2.75000E+01	.
75 097 1240	. . .	.	1.67000E+01	.
75 104 1225	. . .	3	1.32000E+01	2.27112E-01
75 111 1225	. . .	.	1.32000E+01	.
75 118 1225	. . .	10	2.17000E+01	1.15401E+00
75 125 1320	. . .	8	4.51000E+01	1.88113E+00
75 132 1150	. . .	.	1.96000E+01	.
75 139 1205	. . .	.	2.06000E+01	.
75 147 1150	. . .	15	1.02000E+01	8.08342E-01
75 153 1400	. . .	.	1.02000E+01	.
75 160 1210	. . .	17	3.83000E+00	3.33478E-01
75 167 1130	. . .	.	3.11000E+00	.
75 174 1135	. . .	.	1.69000E+00	.
75 181 .	. . .	33	1.69000E+00	2.87247E-01
75 195 1240	. . .	.	3.73000E+02	.
75 202 1200	. . .	.	5.21000E+01	.
75 209 1245	. . .	.	4.65000E+00	.
75 216 1115	. . .	.	2.48000E+00	.
75 223 1140	. . .	.	2.48000E+00	.
75 230 1220	. . .	.	1.40000E+01	.
75 237 1120	. . .	.	2.78000E+00	.
75 244 1040	. . .	.	3.42000E+01	.
75 251 1145	. . .	.	8.27000E+00	.
75 258 1200	. . .	.	2.48000E+00	.
75 265 1205	. . .	.	4.65000E+00	.
75 272 1220	. . .	.	3.14000E+01	.
75 280 0940	. . .	.	1.24000E+01	.
75 287 0940	. . .	.	1.67000E+01	.
75 293 1010	. . .	.	2.51000E+01	.
75 301 1055	. . .	.	1.49000E+01	.
75 307 1050	. . .	.	1.32000E+01	.
75 314 1345	. . .	.	1.40000E+01	.

WEIR 102 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 321 0940	. . .	.	1.96000E+01	.
75 328 1205	. . .	.	1.49000E+01	.
WINTER 1975		4	4.24830E+02	3.21168E-01
SPRING 1975		9	3.61200E+02	4.07059E+00
SUMMER 1975		25	5.06210E+02	6.20725E-01
FALL 1975		.	2.11800E+02	.
TOTAL 1975		13	1.44724E+03	5.01249E+00

WEIR 102 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1200	. . .	.	1.86000E+01	.
75 342 1100	. . .	.	1.32000E+01	.
75 349 1205	. . .	.	1.32000E+01	.
75 356 1010	. . .	.	1.02000E+01	.
75 363 1120	. . .	.	1.76000E+01	.
76 005 1145	. . .	.	3.71000E+01	.
76 012 1130	. . .	23	3.86000E+01	4.66903E+00
76 019 1235	. . .	.	1.32000E+01	.
76 026 1117	. . .	46	2.88000E+01	6.89218E+00
76 033 1235	. . .	.	7.24000E+01	.
76 040 1057	. . .	7	2.51000E+01	9.68405E-01
76 047 0915	. . .	11	2.39000E+01	1.34578E+00
76 054 1055	. . .	8	2.63000E+01	1.15182E+00
76 061 1040	. . .	30	1.76000E+01	2.77122E+00
76 068 1100	. . .	.	1.49000E+01	.
76 075 1115	. . .	.	2.63000E+01	.
76 082 1110	. . .	.	1.96000E+01	.
76 089 1110	. . .	.	1.96000E+01	.
76 096 1105	. . .	.	2.75000E+01	.
76 103 1052	. . .	.	1.67000E+01	.
76 110 1110	. . .	.	1.32000E+01	.
76 117 1010	. . .	.	9.54000E+00	.
76 124 1040	. . .	.	1.49000E+01	.
76 131 1008	. . .	.	6.56000E+00	.
76 138 1010	. . .	.	7.67000E+00	.
76 145 1005	. . .	.	2.78000E+00	.
76 153 1020	. . .	.	7.67000E+00	.
76 159 1035	. . .	.	2.19000E+00	.
76 166 1010	. . .	.	4.92000E+01	.
76 173 1035	. . .	.	1.46000E+00	.
76 194 1022	. . .	16	7.47000E+01	6.07570E+00
76 201 1010	. . .	.	7.47000E+01	.
76 222 1030	. . .	.	1.67000E+01	.
76 229 1100	. . .	.	1.32000E+01	.
76 264 1025	. . .	.	3.88000E+01	.
76 278 1105	. . .	9	8.89000E+00	4.07883E-01
76 286 1140	. . .	.	1.02000E+01	.
76 292 1100	. . .	.	5.55000E+00	.
76 300 1145	. . .	.	9.16000E+01	.
76 306 1150	. . .	.	2.88000E+01	.
76 313 1153	. . .	.	1.17000E+01	.
76 320 1125	. . .	.	9.54000E+00	.
76 327 1145	. . .	.	7.67000E+00	.
76 334 1320	. . .	.	2.39000E+01	.
WINTER 1976		21	3.55800E+02	1.77984E+01

WEIR 102 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
SPRING 1976		30	2.04520E+02	2.77122E+00
SUMMER 1976		16	2.39820E+02	6.07570E+00
FALL 1976		9	2.36650E+02	4.07883E-01
TOTAL 1976		19	1.01152E+03	2.42820E+01

WEIR 103 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
74 336 1120	. . .	.	1.32000E+01	.
74 343 1130	. . .	.	8.89000E+00	.
74 350 1245	. . .	.	1.67000E+02	.
74 364 1040	. . .	.	4.65000E+00	.
75 006 1200	. . .	2	4.23000E+00	4.00315E-02
75 013 1200	. . .	.	4.51000E+01	.
75 027 1155	. . .	.	1.76000E+01	.
75 034 1400	. . .	.	1.32000E+01	.
75 041 1455	. . .	.	2.17000E+01	.
75 049 1600	. . .	.	2.17000E+01	.
75 055 1425	. . .	.	2.63000E+01	.
75 062 1420	. . .	.	1.40000E+01	.
75 069 1355	. . .	.	1.24000E+01	.
75 076 1600	. . .	.	7.47000E+01	.
75 083 1545	. . .	.	7.93000E+01	.
75 090 1350	. . .	.	3.71000E+01	.
75 097 1540	. . .	.	2.75000E+01	.
75 104 1540	. . .	.	2.06000E+01	.
75 111 1555	. . .	.	1.96000E+01	.
75 118 1540	. . .	.	3.14000E+01	.
75 125 1615	. . .	.	5.39000E+01	.
75 132 1610	. . .	.	2.88000E+01	.
75 139 1515	. . .	.	2.63000E+01	.
75 147 1435	. . .	.	1.58000E+01	.
75 153 1705	. . .	.	1.58000E+01	.
75 160 1540	. . .	.	6.05000E+00	.
75 167 1505	. . .	.	3.28000E+01	.
75 174 1245	. . .	.	2.78000E+00	.
75 181 .	. . .	.	2.78000E+00	.
75 195 1600	. . .	.	2.02000E+02	.
75 202 1515	. . .	.	3.86000E+01	.
75 209 1400	. . .	.	6.56000E+00	.
75 216 .	. . .	.	1.69000E+00	.
75 223 1450	. . .	.	2.48000E+00	.
75 230 1530	. . .	.	2.28000E+01	.
75 239 1040	. . .	.	7.67000E+00	.
75 244 1220	. . .	.	2.51000E+01	.
75 251 1415	. . .	.	2.48000E+00	.
75 258 1500	. . .	.	1.26000E+00	.
75 265 1500	. . .	.	4.65000E+00	.
75 272 1445	. . .	.	4.68000E+01	.
75 280 1220	. . .	28	1.67000E+01	1.81751E+00
75 287 1235	. . .	29	2.06000E+01	2.33131E+00
75 293 1215	. . .	25	2.75000E+01	2.73265E+00
75 301 1240	. . .	33	2.06000E+01	2.64811E+00
75 307 1335	. . .	28	1.96000E+01	2.13312E+00
75 314 1605	. . .	28	2.39000E+01	2.61053E+00

WEIR 103 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 322 1315	. . .	34	2.51000E+01	3.38494E+00
75 328 1600	. . .	.	2.17000E+01	.
WINTER 1975		2	3.57570E+02	4.00315E-02
SPRING 1975		.	4.57200E+02	.
SUMMER 1975		.	3.67110E+02	.
FALL 1975		29	2.55990E+02	1.76582E+01
TOTAL 1975		26	1.38297E+03	1.76982E+01

WEIR 103 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1555	. . .	.	2.51000E+01	.
75 342 1430	. . .	.	2.06000E+01	.
75 349 1535	. . .	.	2.06000E+01	.
75 356 1210	. . .	28	1.58000E+01	1.73202E+00
75 363 1330	. . .	.	2.39000E+01	.
76 005 1500	. . .	.	5.39000E+01	.
76 012 1500	. . .	4	4.68000E+01	7.01262E-01
76 019 1430	. . .	.	2.75000E+01	.
76 026 1525	. . .	28	6.59000E+01	7.25004E+00
76 033 1525	. . .	.	8.17000E+01	.
76 040 1605	. . .	.	4.18000E+01	.
76 047 1115	. . .	.	3.56000E+01	.
76 054 1510	. . .	.	3.56000E+01	.
76 061 1400	. . .	.	3.01000E+01	.
76 068 1420	. . .	.	2.51000E+01	.
76 075 1545	. . .	.	3.86000E+01	.
76 082 1510	. . .	.	3.14000E+01	.
76 089 1410	. . .	.	3.01000E+01	.
76 096 1505	. . .	.	3.86000E+01	.
76 103 1435	. . .	.	2.63000E+01	.
76 110 1440	. . .	.	2.28000E+01	.
76 117 1515	. . .	.	1.67000E+01	.
76 124 1525	. . .	.	2.06000E+01	.
76 131 1450	. . .	.	9.54000E+00	.
76 138 1500	. . .	.	1.24000E+01	.
76 145 1430	. . .	.	5.09000E+00	.
76 153 1500	. . .	.	1.32000E+01	.
76 159 1455	. . .	.	3.83000E+00	.
76 166 1530	. . .	.	8.99000E+01	.
76 173 1537	. . .	.	2.19000E+00	.
76 194 1430	. . .	20	0.00000E+00	0.00000E+00
76 201 1500	. . .	.	1.93000E+00	.
76 222 1445	. . .	85	2.51000E+01	8.42275E+00
76 229 1500	. . .	.	1.17000E+01	.
76 278 1520	. . .	.	7.67000E+00	.
76 286 1506	. . .	.	9.54000E+00	.
76 292 1445	. . .	.	6.05000E+00	.
76 300 1450	. . .	.	6.59000E+01	.
76 306 1630	. . .	.	3.01000E+01	.
76 313 1620	. . .	.	1.67000E+01	.
76 320 1455	. . .	.	1.24000E+01	.
76 327 1530	. . .	.	9.54000E+00	.
76 334 1700	. . .	.	3.01000E+01	.
WINTER 1976		20	5.24900E+02	9.68332E+00
SPRING 1976		.	3.20530E+02	.

WEIR 103 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
SUMMER 1976		53	1.47850E+02	8.42275E+00
FALL 1976		.	1.88000E+02	.
TOTAL 1976		33	1.13798E+03	1.81061E+01

WEIR 105 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 006 1535	. . .	.	7.47000E+01	.
75 013 1500	. . .	.	2.17000E+01	.
75 027 1320	. . .	.	3.83000E+00	.
75 034 1035	. . .	6	2.48000E+00	3.70347E-01
75 041 1130	. . .	.	3.46000E+00	.
75 049 1100	. . .	.	3.83000E+00	.
75 055 1100	. . .	.	4.23000E+00	.
75 062 1120	. . .	.	2.19000E+00	.
75 069 1050	. . .	27	2.19000E+00	1.56512E+00
75 076 1150	. . .	.	1.49000E+01	.
75 083 1220	. . .	.	1.76000E+01	.
75 090 1110	. . .	.	5.55000E+00	.
75 097 1110	. . .	.	3.46000E+00	.
75 104 1105	. . .	6	2.48000E+00	4.03413E-01
75 111 1050	. . .	9	2.48000E+00	5.62133E-01
75 118 1100	. . .	.	4.23000E+00	.
75 125 1130	. . .	.	8.89000E+00	.
75 132 1040	. . .	.	3.83000E+00	.
75 139 1040	. . .	.	3.83000E+00	.
75 147 1035	. . .	14	1.93000E+00	7.25680E-01
75 153 1030	. . .	.	2.19000E+00	.
75 160 1030	. . .	27	4.92000E+01	3.59488E+01
75 167 1010	. . .	20	3.88000E+01	2.11072E+01
75 174 1040	. . .	.	1.91000E+02	.
75 181 .	. . .	53	3.92000E+02	5.56117E+02
75 188 0945	. . .	57	1.91000E+02	2.90320E+02
75 195 1040	. . .	.	6.18000E+01	.
75 202 1030	. . .	.	9.54000E+00	.
75 209 1100	. . .	17	8.99000E+01	4.02752E+01
75 216 1005	. . .	.	7.47000E+01	.
75 223 1040	. . .	53	2.98000E+01	4.17200E+01
75 230 1120	. . .	.	1.46000E+00	.
75 237 0956	. . .	.	4.92000E+01	.
75 244 0940	. . .	.	5.55000E+00	.
75 251 1015	. . .	.	1.07000E+00	.
75 258 1045	. . .	32	6.12000E+01	5.20608E+01
75 265 1040	. . .	37	4.92000E+01	4.89376E+01
75 272 1030	. . .	.	7.10000E+00	.
75 280 0840	. . .	34	2.48000E+00	2.25515E+00
75 287 0850	. . .	.	3.11000E+00	.
75 293 0850	. . .	.	7.67000E+00	.
75 301 0955	. . .	33	3.11000E+00	2.70363E+00
75 307 0840	. . .	45	2.48000E+00	2.95616E+00
75 314 1240	. . .	33	3.11000E+00	2.70363E+00
75 321 1145	. . .	.	3.46000E+00	.
75 328 1035	. . .	25	2.48000E+00	1.63349E+00

WEIR 105 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
WINTER 1975		6	1.16420E+02	3.70347E-01
SPRING 1975		14	7.57500E+01	3.25635E+00
SUMMER 1975		38	1.18614E+03	9.85489E+02
FALL 1975		34	1.52020E+02	1.13250E+02
TOTAL 1975		29	1.52040E+03	1.10237E+03

WEIR 105 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1040	. . .	36	3.46000E+00	3.31237E+00
75 342 1000	. . .	19	1.93000E+00	9.93307E-01
75 349 1010	. . .	21	1.93000E+00	1.05507E+00
75 356 0915	. . .	35	1.26000E+00	1.17936E+00
75 363 1010	. . .	31	3.11000E+00	2.57093E+00
76 005 0930	. . .	.	7.67000E+00	.
76 012 0900	. . .	.	7.10000E+00	.
76 019 1030	. . .	18	2.19000E+00	1.02784E+00
76 026 1255	. . .	22	8.89000E+00	5.19176E+00
76 033 1055	. . .	.	1.58000E+01	.
76 040 0913	. . .	.	5.09000E+00	.
76 047 0757	. . .	16	4.65000E+00	1.98400E+00
76 054 0920	. . .	14	4.65000E+00	1.77320E+00
76 061 0910	. . .	.	3.46000E+00	.
76 068 0940	. . .	.	2.78000E+00	.
76 075 0948	. . .	.	5.08000E+00	.
76 082 0940	. . .	.	3.46000E+00	.
76 089 0955	. . .	.	3.46000E+00	.
76 096 0945	. . .	.	5.09000E+00	.
76 103 0940	. . .	.	2.78000E+00	.
76 110 0940	. . .	.	2.48000E+00	.
76 117 0850	. . .	.	1.69000E+00	.
76 124 0915	. . .	.	2.19000E+00	.
76 131 0845	. . .	.	7.47000E+01	.
76 138 0845	. . .	.	8.99000E+01	.
76 145 0845	. . .	.	3.88000E+01	.
76 153 0855	. . .	.	8.99000E+01	.
76 159 0934	. . .	.	2.22000E+01	.
76 166 0834	. . .	.	1.91000E+02	.
76 173 0930	. . .	.	2.20000E+01	.
76 180 0935	. . .	.	1.91000E+02	.
76 188 0830	. . .	46	6.94000E+03	8.43904E+03
76 194 0855	. . .	.	1.08000E+01	.
76 201 0845	. . .	.	1.91000E+02	.
76 208 0840	. . .	.	6.94000E+03	.
76 215 0932	. . .	.	1.91000E+02	.
76 222 0905	. . .	.	7.67000E+00	.
76 229 0930	. . .	.	2.78000E+00	.
76 236 0905	. . .	.	1.91000E+02	.
76 243 0918	. . .	.	1.91000E+02	.
76 251 0900	. . .	.	6.94000E+03	.
76 257 0904	. . .	.	6.94000E+03	.
76 257 0904	. . .	.	.	.
76 257 0904	. . .	.	.	.
76 264 0900	. . .	.	1.91000E+02	.
76 271 0920	. . .	.	6.94000E+03	.
76 271 0920	. . .	.	.	.

WEIR 105 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
76 278 0924	. . .	.	8.99000E+01	.
76 286 0940	. . .	.	1.26000E+00	.
76 292 0930	. . .	.	8.99000E+01	.
76 300 0930	. . .	.	1.86000E+01	.
76 306 1000	. . .	.	6.56000E+00	.
76 313 1015	. . .	.	2.19000E+00	.
76 320 0950	. . .	.	1.69000E+00	.
76 327 1005	. . .	.	1.07000E+00	.
76 334 1130	. . .	13	4.65000E+00	1.66160E+00
WINTER 1976		24	7.11900E+01	1.90878E+01
SPRING 1976		.	3.25770E+02	.
SUMMER 1976		46	1.51813E+04	8.43904E+03
FALL 1976		13	2.14178E+04	1.66160E+00
TOTAL 1976		25	3.67118E+04	8.45979E+03

WEIR 106 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 006 1605	. . .	.	1.26000E+00	.
75 013 1520	. . .	.	4.18000E+01	.
75 027 1340	. . .	.	8.89000E+00	.
75 034 1050	. . .	.	6.05000E+00	.
75 041 1145	. . .	.	8.27000E+00	.
75 049 1120	. . .	.	1.32000E+01	.
75 055 1120	. . .	.	8.89000E+00	.
75 062 1135	. . .	.	5.09000E+00	.
75 069 1120	. . .	30	4.23000E+00	1.31383E+00
75 076 1205	. . .	.	2.88000E+01	.
75 083 1240	. . .	.	3.14000E+01	.
75 090 1130	. . .	.	1.24000E+01	.
75 097 1125	. . .	.	8.27000E+00	.
75 104 1125	. . .	.	8.27000E+00	.
75 111 1105	. . .	.	1.09000E+01	.
75 118 1110	. . .	.	1.58000E+01	.
75 125 1150	. . .	.	2.19000E+00	.
75 132 1055	. . .	.	8.89000E+00	.
75 139 1100	. . .	.	8.89000E+00	.
75 147 1055	. . .	22	5.09000E+00	1.16434E+00
75 153 1045	. . .	.	5.55000E+00	.
75 160 1055	. . .	.	5.09000E+00	.
75 167 1030	. . .	.	4.65000E+00	.
75 174 1020	. . .	.	3.11000E+00	.
75 181 .	. . .	40	3.11000E+00	1.31841E+00
75 188 1015	. . .	88	1.46000E+00	1.35123E+00
75 195 1050	. . .	.	1.26000E+02	.
75 202 .	. . .	.	1.86000E+01	.
75 209 1145	. . .	.	2.19000E+00	.
75 216 1020	. . .	.	1.07000E+00	.
75 223 1055	. . .	.	1.07000E+00	.
75 230 1130	. . .	.	4.23000E+00	.
75 237 1013	. . .	.	1.07000E+00	.
75 244 0930	. . .	.	1.24000E+01	.
75 251 1040	. . .	.	2.78000E+00	.
75 258 1100	. . .	14	6.12000E+01	8.86212E+00
75 265 1100	. . .	.	1.69000E+00	.
75 272 1040	. . .	.	1.49000E+01	.
75 280 0850	. . .	.	6.56000E+00	.
75 287 0855	. . .	31	8.27000E+00	2.70749E+00
75 293 0900	. . .	.	1.40000E+01	.
75 301 1005	. . .	.	8.27000E+00	.
75 307 0850	. . .	.	7.10000E+00	.
75 314 1250	. . .	.	8.27000E+00	.
75 321 1155	. . .	.	8.89000E+00	.
75 328 1040	. . .	.	6.56000E+00	.

WEIR 106 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
WINTER 1975		.	9.34500E+01	.
SPRING 1975		26	1.55770E+02	2.47817E+00
SUMMER 1975		64	1.89600E+02	2.66963E+00
FALL 1975		22	1.60890E+02	1.15696E+01
TOTAL 1975		37	5.76670E+02	1.67174E+01

WEIR 106 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1055	. . .	.	8.89000E+00	.
75 342 1010	. . .	.	6.05000E+00	.
75 349 1105	. . .	.	6.05000E+00	.
75 356 0925	. . .	.	4.23000E+00	.
75 363 1015	. . .	21	7.67000E+00	1.64990E+00
76 005 1040	. . .	.	1.58000E+01	.
76 012 0915	. . .	.	1.40000E+01	.
76 019 1035	. . .	18	7.10000E+00	1.30378E+00
76 026 1013	. . .	27	7.67000E+00	2.17303E+00
76 033 1545	. . .	.	3.01000E+01	.
76 040 0932	. . .	9	1.17000E+01	1.06810E+00
76 047 0810	. . .	14	1.17000E+01	1.66967E+00
76 054 0935	. . .	10	1.09000E+01	1.14376E+00
76 061 0925	. . .	11	8.27000E+00	9.19853E-01
76 068 1000	. . .	32	7.67000E+00	2.53520E+00
76 075 1015	. . .	.	1.09000E+01	.
76 082 0950	. . .	7	8.27000E+00	5.98772E-01
76 089 1015	. . .	15	8.27000E+00	1.32771E+00
76 096 1000	. . .	12	1.17000E+01	1.42413E+00
76 103 0957	. . .	36	6.56000E+00	2.47807E+00
76 110 0955	. . .	34	6.05000E+00	2.15845E+00
76 117 0905	. . .	21	4.65000E+00	1.01002E+00
76 124 0937	. . .	.	6.05000E+00	.
76 131 0910	. . .	.	2.48000E+00	.
76 138 0905	. . .	.	3.11000E+00	.
76 145 0905	. . .	.	1.07000E+00	.
76 153 0920	. . .	.	3.11000E+00	.
76 159 0852	. . .	.	8.99000E+01	.
76 166 0850	. . .	.	1.08000E+01	.
76 173 0950	. . .	46	7.47000E+01	3.62918E+01
76 180 1000	. . .	185	6.94000E+03	1.34649E+04
76 188 0900	. . .	.	1.23000E+03	.
76 194 0906	. . .	31	6.12000E+01	1.98434E+01
76 201 0925	. . .	32	2.98000E+01	1.00376E+01
76 208 0950	. . .	480	1.23000E+03	6.19905E+03
76 215 0950	. . .	201	3.92000E+02	8.28424E+02
76 222 0930	. . .	.	1.67000E+01	.
76 229 1000	. . .	.	8.89000E+00	.
76 236 0933	. . .	.	1.59000E+01	.
76 243 0940	. . .	.	3.92000E+02	.
76 251 0945	. . .	17	1.23000E+03	2.23284E+02
76 264 0915	. . .	31	1.23000E+03	3.96233E+02
76 278 0945	. . .	.	1.26000E+00	.
76 286 1000	. . .	.	2.78000E+00	.
76 292 0955	. . .	.	1.69000E+00	.
76 300 0950	. . .	18	3.28000E+01	6.02308E+00
76 306 1020	. . .	.	1.09000E+01	.

WEIR 106 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
76 313 1040	. . .	.	3.83000E+00	.
76 320 1017	. . .	19	3.11000E+00	6.26569E-01
76 327 1030	. . .	.	2.48000E+00	.
76 334 1205	. . .	18	1.09000E+01	2.10451E+00
WINTER 1976		15	1.50130E+02	9.92809E+00
SPRING 1976		21	8.81600E+01	1.24522E+01
SUMMER 1976		163	1.04950E+04	2.05586E+04
FALL 1976		21	2.92175E+03	6.28271E+02
TOTAL 1976		54	1.32517E+04	2.12083E+04

WEIR 107 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
74 336 1500	. . .	.	1.46000E+00	.
74 343 1400	. . .	163	2.19000E+00	1.26352E+01
74 350 1610	. . .	.	1.02000E+01	.
74 364 1330	. . .	4	7.47000E+01	1.13904E+01
75 006 1000	. . .	2	7.47000E+01	4.76809E+00
75 013 1600	. . .	.	3.11000E+00	.
75 027 1020	. . .	.	3.46000E+00	.
75 034 0955	. . .	6	6.56000E+00	1.41901E+00
75 041 1030	. . .	.	3.83000E+00	.
75 049 1025	. . .	.	3.46000E+00	.
75 055 1020	. . .	.	4.65000E+00	.
75 062 1040	. . .	.	2.78000E+00	.
75 069 1000	. . .	34	2.19000E+00	2.60936E+00
75 076 1045	. . .	.	1.96000E+01	.
75 083 1110	. . .	.	1.09000E+01	.
75 090 1030	. . .	.	5.09000E+00	.
75 097 1025	. . .	.	6.05000E+00	.
75 104 .	. . .	4	2.78000E+00	3.54894E-01
75 111 1015	. . .	.	2.78000E+00	.
75 118 1005	. . .	.	3.46000E+00	.
75 125 1045	. . .	.	5.55000E+00	.
75 132 1000	. . .	.	2.48000E+00	.
75 139 0950	. . .	.	3.46000E+00	.
75 147 0950	. . .	12	2.78000E+00	1.16326E+00
75 153 0945	. . .	.	2.48000E+00	.
75 160 0940	. . .	11	1.23000E+03	4.97234E+02
75 167 0935	. . .	9	1.07000E+00	3.49078E-01
75 174 1107	. . .	.	8.99000E+01	.
75 181 .	. . .	8	7.47000E+01	2.11915E+01
75 188 0910	. . .	44	2.22000E+01	3.43234E+01
75 195 0955	. . .	.	4.02000E+01	.
75 202 1000	. . .	.	7.67000E+00	.
75 209 1015	. . .	.	1.46000E+00	.
75 216 .	. . .	25	8.99000E+01	8.06550E+01
75 223 1000	. . .	10	8.99000E+01	3.02855E+01
75 230 1045	. . .	.	1.26000E+00	.
75 237 0908	. . .	.	6.12000E+01	.
75 244 0855	. . .	.	2.19000E+00	.
75 251 0935	. . .	.	1.07000E+00	.
75 258 0935	. . .	.	4.92000E+01	.
75 265 1015	. . .	15	5.19000E+01	2.79745E+01
75 272 0950	. . .	.	.	.
WINTER 1975		44	1.91100E+02	3.02127E+01
SPRING 1975		16	7.23800E+01	4.12752E+00

WEIR 107 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
	SUMMER 1975	18	1.71413E+03	6.64038E+02
	FALL 1975	15	1.04360E+02	2.79745E+01
	TOTAL 1975	25	2.07452E+03	7.26353E+02
75 280 0800	. . .	37	.	.
75 287 0800	. . .	26	.	.
75 293 0805	. . .	22	.	.
75 301 0920	. . .	40	.	.
75 307 0800	. . .	49	.	.
75 314 1155	. . .	29	.	.
75 321 0900	. . .	23	.	.
75 328 0950	. . .	33	.	.
	WINTER 1975	44	1.91100E+02	3.02127E+01
	SPRING 1975	16	7.23800E+01	4.12752E+00
	SUMMER 1975	18	1.71413E+03	6.64038E+02
	FALL 1975	30	1.04360E+02	2.79745E+01
	TOTAL 1975	27	2.07452E+03	7.26353E+02

WEIR 107 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1010	. . .	8	.	.
75 342 0930	. . .	5	.	.
75 349 0945	. . .	6	.	.
75 356 0845	. . .	24	.	.
75 363 0935	. . .	21	.	.
76 005 0800	. . .	23	.	.
76 012 1030	. . .	.	.	.
76 019 0930	. . .	182	.	.
76 026 0915	. . .	10	.	.
76 033 1015	. . .	28	.	.
76 040 1015	. . .	4	.	.
76 047 1215	. . .	6	.	.
76 054 0850	. . .	6	.	.
76 061 0845	. . .	32	.	.
76 068 0915	. . .	28	.	.
76 075 0915	. . .	36	.	.
76 082 0915	. . .	36	.	.
76 089 0915	. . .	41	.	.
76 096 0900	. . .	50	.	.
76 103 0910	. . .	43	.	.
76 110 0905	. . .	38	.	.
76 117 0830	. . .	30	.	.
76 124 0845	. . .	33	.	.
76 131 0800	. . .	13	.	.
76 138 0810	. . .	33	.	.
76 145 0815	. . .	188	.	.
76 153 1630	. . .	131	.	.
76 159 0810	. . .	.	8.99000E+01	.
76 166 0750	. . .	.	4.92000E+01	.
76 173 0850	. . .	.	8.99000E+01	.
76 180 0840	. . .	.	3.88000E+01	.
76 188 0750	. . .	.	2.22000E+01	.
76 188 0750	. . .	.	.	.
76 194 0800	. . .	.	4.92000E+01	.
76 201 0806	. . .	.	3.88000E+01	.
76 208 0805	. . .	.	1.08000E+01	.
76 222 0820	. . .	.	2.78000E+00	.
76 229 0850	. . .	.	2.19000E+00	.
76 236 0812	. . .	.	2.24000E+01	.
76 243 0840	. . .	.	2.27000E+02	.
76 278 0840	. . .	.	7.47000E+01	.
76 286 0900	. . .	.	1.07000E+00	.
76 292 0840	. . .	.	8.99000E+01	.
76 300 0900	. . .	.	8.27000E+00	.
76 306 0930	. . .	.	2.78000E+00	.
76 313 0940	. . .	.	1.26000E+00	.
76 320 0910	. . .	.	1.07000E+00	.

WEIR 107 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
76 327 0930	. . .	.	8.99000E+01	.
76 334 1040	. . .	.	4.92000E+01	.
	WINTER 1976	27	.	.
	SPRING 1976	52	.	.
	SUMMER 1976	131	6.43170E+02	.
	FALL 1976	.	5.45150E+02	.
	TOTAL 1976	41	9.61320E+02	.

WEIR 108 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
74 336 1200	. . .	.	1.67000E+01	.
74 343 1220	. . .	.	1.02000E+01	.
74 350 1325	. . .	.	3.21000E+02	.
74 364 1110	. . .	.	4.23000E+00	.
75 006 1315	. . .	.	3.46000E+00	.
75 013 1245	. . .	.	4.68000E+01	.
75 027 1240	. . .	.	1.24000E+01	.
75 034 1340	. . .	.	1.02000E+01	.
75 041 1340	. . .	.	1.32000E+01	.
75 049 1455	. . .	.	1.40000E+01	.
75 055 1345	. . .	.	1.49000E+01	.
75 062 1340	. . .	.	1.02000E+01	.
75 069 1230	. . .	.	8.89000E+00	.
75 076 1445	. . .	.	4.02000E+01	.
75 083 1500	. . .	.	3.56000E+01	.
75 090 1405	. . .	.	2.06000E+01	.
75 097 1510	. . .	.	1.58000E+01	.
75 104 1525	. . .	.	1.32000E+01	.
75 111 1530	. . .	.	1.24000E+01	.
75 118 1500	. . .	.	1.67000E+01	.
75 125 1545	. . .	.	3.14000E+01	.
75 132 1545	. . .	.	1.86000E+01	.
75 139 1440	. . .	.	1.57000E+01	.
75 167 1415	. . .	.	1.09000E+01	.
75 153 1030	. . .	.	1.17000E+01	.
75 160 1510	. . .	.	6.05000E+00	.
75 167 1400	. . .	.	5.55000E+00	.
75 174 1300	. . .	.	2.48000E+00	.
75 181 .	. . .	.	1.69000E+00	.
75 188 1230	. . .	.	8.99000E+01	.
75 195 1515	. . .	.	1.08000E+02	.
75 202 1440	. . .	.	3.14000E+01	.
75 209 1330	. . .	.	7.10000E+00	.
75 216 .	. . .	.	2.48000E+00	.
75 223 1400	. . .	.	2.78000E+00	.
75 230 1515	. . .	.	6.05000E+00	.
75 237 1345	. . .	.	1.69000E+00	.
75 244 1155	. . .	.	2.06000E+01	.
75 251 1325	. . .	.	7.10000E+00	.
75 258 1445	. . .	.	1.07000E+00	.
75 265 1440	. . .	.	3.11000E+00	.
75 272 1415	. . .	.	3.14000E+01	.
75 280 1150	. . .	.	1.40000E+01	.
75 287 1220	. . .	.	1.86000E+01	.
75 293 1145	. . .	.	2.51000E+01	.
75 301 1210	. . .	.	1.67000E+01	.
75 307 1320	. . .	.	1.49000E+01	.

WEIR 108 1975 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 314 1545	. . .	.	1.58000E+01	.
75 322 1255	. . .	.	1.67000E+01	.
75 328 1540	. . .	.	1.49000E+01	.
WINTER 1975		.	4.77290E+02	.
SPRING 1975		.	2.50990E+02	.
SUMMER 1975		.	3.08370E+02	.
FALL 1975		.	1.99980E+02	.
TOTAL 1975		.	1.19413E+03	.

WEIR 108 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1520	. . .	.	1.86000E+01	.
75 342 1400	. . .	.	1.40000E+01	.
75 349 1515	. . .	.	1.24000E+01	.
75 356 1130	. . .	.	1.02000E+01	.
75 363 1300	. . .	.	1.40000E+01	.
76 005 1430	. . .	.	3.71000E+01	.
76 012 1415	. . .	11	3.28000E+01	2.28989E+00
76 019 1400	. . .	.	3.01000E+01	.
76 026 1500	. . .	85	4.34000E+01	2.44702E+01
76 033 1450	. . .	.	7.93000E+01	.
76 040 1515	. . .	.	2.63000E+01	.
76 047 1125	. . .	.	2.28000E+01	.
76 054 1430	. . .	.	2.06000E+01	.
76 061 1325	. . .	.	1.67000E+01	.
76 068 1340	. . .	.	1.49000E+01	.
76 075 1305	. . .	.	1.96000E+01	.
76 082 1445	. . .	.	1.58000E+01	.
76 089 1315	. . .	.	1.58000E+01	.
76 096 1415	. . .	.	1.86000E+01	.
76 103 1318	. . .	45	1.40000E+01	4.21676E+00
76 110 1340	. . .	.	1.17000E+01	.
76 117 1307	. . .	.	9.54000E+00	.
76 124 1330	. . .	.	1.02000E+01	.
76 131 1235	. . .	.	5.55000E+00	.
76 138 1340	. . .	.	8.89000E+00	.
76 145 1310	. . .	.	3.11000E+00	.
76 153 1320	. . .	.	6.05000E+00	.
76 159 1345	. . .	.	1.46000E+00	.
76 166 1345	. . .	.	1.59000E+01	.
76 173 1425	. . .	13	2.78000E+00	2.31051E-01
76 194 1308	. . .	.	1.93000E+00	.
76 201 1300	. . .	.	3.88000E+01	.
76 222 1305	. . .	.	2.51000E+01	.
76 229 1325	. . .	.	7.67000E+00	.
76 243 1255	. . .	.	3.92000E+02	.
76 278 1340	. . .	.	3.83000E+00	.
76 286 1350	. . .	.	4.23000E+00	.
76 292 1320	. . .	.	3.46000E+00	.
76 300 1300	. . .	.	3.86000E+01	.
76 306 1505	. . .	.	1.58000E+01	.
76 313 1455	. . .	.	7.10000E+00	.
76 320 1335	. . .	.	7.10000E+00	.
76 327 1400	. . .	.	5.55000E+00	.
76 334 1555	. . .	.	2.06000E+01	.
WINTER 1976		48	3.78300E+02	2.67601E+01

WEIR 108 1976 TOTAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
SPRING 1976		45	1.70440E+02	4.21676E+00
SUMMER 1976		13	4.91690E+02	2.31051E-01
FALL 1976		.	4.98270E+02	.
TOTAL 1976		38	1.12395E+03	3.12079E+01

WEIR 101 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
74 336 1030	74 343 1045	22.1	8.94000E+06	8.74608E+05
74 343 1045	74 350 1130	32.8	7.26000E+06	1.05413E+06
74 350 1130	74 357 1000	20.0	1.39000E+07	1.23063E+06
74 357 1000	74 364 0925	2.1	4.92000E+06	4.57371E+04
74 364 0925	75 006 1115	2.9	5.46000E+06	7.00930E+04
75 006 1115	75 013 1100	5.9	1.23000E+07	3.21248E+05
75 013 1100	75 020 1000	15.5	1.84000E+07	1.26251E+06
75 020 1000	75 027 1105	2.2	1.65000E+07	1.60691E+05
75 027 1105	75 034 1145	15.5	1.18000E+07	8.09650E+05
75 034 1145	75 041 1240	7.9	2.04000E+07	7.13413E+05
75 041 1240	75 049 1340	3.4	1.67000E+07	2.51350E+05
75 049 1340	75 055 1205	10.3	1.02000E+07	4.65073E+05
75 055 1205	75 062 1225	9.6	1.33000E+07	5.65206E+05
75 062 1225	75 069 1210	34.0	8.99000E+06	1.35308E+06
75 069 1210	75 076 1320	60.0	3.25000E+07	8.63214E+06
75 076 1320	75 083 1345	230.7	5.73000E+07	5.85175E+07
75 083 1340	75 090 1245	79.3	3.10000E+07	1.08822E+07
75 090 1245	75 097 1215	33.1	1.74000E+07	2.54954E+06
75 097 1215	75 104 1210	7.7	1.25000E+07	4.26073E+05
75 104 1210	75 111 1205	12.1	1.70000E+07	9.10580E+05
75 111 1205	75 118 1205	4.5	1.86000E+07	3.70518E+05
75 118 1205	75 125 1305	55.7	3.08000E+07	7.59433E+06
75 125 1305	75 132 1135	50.7	2.27000E+07	5.09469E+06
75 132 1135	75 139 1150	31.9	2.22000E+07	3.13493E+06
75 139 1150	75 147 1130	15.7	1.18000E+07	8.20097E+05
75 147 1130	75 153 1355	38.8	7.37000E+06	1.26585E+06
75 153 1355	75 160 1150	10.6	6.23000E+06	2.92333E+05
75 160 1150	75 167 .	15.8	5.45000E+06	3.81186E+05
75 167 .	75 174 1125	.	6.64000E+06	.
75 174 1125	75 181 .	.	1.94000E+06	.
75 181 .	75 188 1045	.	9.94000E+05	.
75 188 1045	75 195 1220	1083.3	3.78000E+07	1.81269E+08
75 195 1220	75 202 1140	92.0	2.82000E+07	1.14847E+07
75 202 1140	75 209 1205	34.7	8.55000E+06	1.31335E+06
75 209 1205	75 216 1100	29.7	4.55000E+06	5.98207E+05
75 216 1100	75 223 1130	89.1	6.08000E+06	2.39809E+06
75 223 1130	75 230 1200	129.1	1.34000E+07	7.65799E+06
75 230 1200	75 237 1105	.	4.09000E+06	.
75 237 1105	75 244 1020	92.3	1.07000E+07	4.37189E+06
75 244 1020	75 251 1130	21.2	9.93000E+06	9.31899E+05
75 251 1130	75 258 1145	.	3.72000E+06	.
75 258 1145	75 265 1150	.	5.27000E+06	.
75 265 1150	75 272 1200	239.1	8.27000E+07	8.75324E+07
75 272 1200	75 280 0925	27.6	1.84000E+07	2.24807E+06
75 280 0925	75 287 0920	40.4	2.45000E+07	4.38158E+06
75 287 0920	75 293 0950	28.1	2.20000E+07	2.73661E+06
75 293 0950	75 301 1040	24.4	1.71000E+07	1.84701E+06

WEIR 101 1975 MINERAL SUSPENDED SOLIDS.
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 301 1040	75 307 1040	41.0	1.12000E+07	2.03276E+06
75 307 1040	75 314 1330	16.4	1.15000E+07	8.34883E+05
75 314 1330	75 321 0920	35.3	2.55000E+07	3.98473E+06
75 321 0920	75 328 1150	24.9	1.34000E+07	1.47703E+06
75 328 1150	75 335 1145	5.9	1.07000E+07	2.79460E+05
WINTER 1975		11.6	1.60080E+08	7.82434E+06
SPRING 1975		50.3	2.90160E+08	1.01552E+08
SUMMER 1975		175.2	1.34624E+08	2.09767E+08
FALL 1975		45.8	2.55920E+08	1.08286E+08
TOTAL 1975		62.7	8.40784E+08	4.27429E+08

WEIR 101 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 335 1145	75 342 1050	1.8	9.95000E+06	7.92829E+04
75 342 1050	75 349 1145	4.6	1.16000E+07	2.36211E+05
75 349 1145	75 356 1000	21.2	8.62000E+06	8.08960E+05
75 356 1000	75 363 1110	33.1	1.62000E+07	2.37371E+06
75 363 1110	76 005 1130	401.6	7.67000E+07	1.36356E+08
76 005 1130	76 012 1100	23.4	3.71000E+07	3.84303E+06
76 012 1100	76 019 1205	14.0	2.02000E+07	1.25188E+06
76 019 1205	76 026 1050	.	1.44000E+07	.
76 026 1050	76 033 1205	139.6	6.17000E+07	3.81289E+07
76 033 1205	76 040 1038	13.6	2.78000E+07	1.67366E+06
76 040 1038	76 047 0900	6.3	1.97000E+07	5.49402E+05
76 047 0900	76 054 1020	11.6	1.96000E+07	1.00646E+06
76 054 1020	76 061 1000	23.6	1.54000E+07	1.60885E+06
76 061 1000	76 068 1040	20.3	1.34000E+07	1.20416E+06
76 068 1040	76 075 1058	28.8	2.66000E+07	3.39124E+06
76 075 1058	76 082 1050	15.0	1.92000E+07	1.27490E+06
76 082 1050	76 089 1050	13.9	1.44000E+07	8.86056E+05
76 089 1050	76 096 1045	83.7	2.79000E+07	1.03375E+07
76 096 1045	76 103 1033	25.2	1.44000E+07	1.60637E+06
76 103 1033	76 110 1040	27.8	1.07000E+07	1.31678E+06
76 110 1040	76 117 0950	.	8.20000E+06	.
76 117 0950	76 124 1017	41.5	1.26000E+07	2.31474E+06
76 124 1017	76 131 0945	10.9	6.31000E+06	3.04467E+05
76 131 0945	76 138 0945	8.5	4.82000E+06	1.81363E+05
76 138 0945	76 145 0945	16.1	4.54000E+06	3.23568E+05
76 145 0945	76 153 0955	31.0	8.00000E+06	1.09783E+06
76 153 0955	76 159 1015	10.7	2.51000E+06	1.18889E+05
76 159 1015	76 166 0947	12.0	9.74000E+05	5.17397E+04
76 166 0947	76 173 1020	63.7	3.75000E+06	1.05744E+06
76 173 1020	76 180 1045	24.9	7.90000E+05	8.70784E+04
76 180 1045	76 188 0950	87.8	8.14000E+05	3.16375E+05
76 188 0950	76 194 0950	50.5	1.13000E+06	2.52612E+05
76 194 0950	76 201 0950	134.0	4.65000E+06	2.75830E+06
76 201 0950	76 208 1000	30.6	4.40000E+05	5.96016E+04
76 208 1000	76 215 1100	28.9	7.20000E+05	9.21116E+04
76 215 1100	76 222 1012	566.7	8.27000E+06	2.07464E+07
76 222 1012	76 229 1040	185.2	1.16000E+07	9.51005E+06
76 229 1040	76 236 1010	24.1	3.03000E+06	3.23254E+05
76 236 1010	76 243 1015	56.1	1.44000E+06	3.57610E+05
76 243 1015	76 251 1027	40.9	2.15000E+05	3.89265E+04
76 251 1027	76 257 0950	50.9	1.23000E+05	2.77145E+04
76 251 1027	76 257 0950	.	.	.
76 251 1027	76 257 0950	.	.	.
76 257 0950	76 264 1000	23.3	2.26000E+06	2.33103E+05
76 264 1000	76 271 1020	7.2	4.53000E+05	1.44382E+04
76 271 1020	76 278 1040	35.8	7.69000E+06	1.21869E+06
76 278 1040	76 286 1110	74.9	1.92000E+07	6.36600E+06

WEIR 101 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
76 286 1110	76 292 1040	7.5	4.16000E+06	1.38114E+05
76 292 1040	76 300 1105	61.1	3.04000E+07	8.22240E+06
76 300 1105	76 306 1120	15.5	2.27000E+07	1.55755E+06
76 300 1105	76 306 1120	.	.	.
76 306 1120	76 313 1125	1.7	1.36000E+07	1.02346E+05
76 313 1125	76 320 1105	5.7	8.62000E+06	2.17503E+05
76 320 1105	76 327 1130	3.9	7.13000E+06	1.23094E+05
76 327 1130	76 334 1300	8.9	6.76000E+06	2.66330E+05
WINTER 1976		53.4	3.38970E+08	1.87916E+08
SPRING 1976		24.8	1.71070E+08	2.42389E+07
SUMMER 1976		98.1	4.01180E+07	3.57315E+07
FALL 1976		26.0	1.23311E+08	1.85262E+07
TOTAL 1976		50.6	6.73469E+08	2.66413E+08

WEIR 102 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
74 336 1055	74 343 1105	26.9	8.29000E+06	1.16267E+06
74 343 1105	74 350 1215	10.5	6.21000E+06	3.39964E+05
74 350 1215	74 357 1020	18.3	1.27000E+07	1.21173E+06
74 357 1020	74 364 1015	2.0	5.23000E+06	5.45360E+04
74 364 1025	75 006 1140	2.3	4.35000E+06	5.21637E+04
75 006 1140	75 013 1125	5.9	1.12000E+07	3.44526E+05
75 013 1125	75 020 1020	14.6	1.78000E+07	1.35495E+06
75 020 1020	75 027 1135	0.2	1.78000E+07	1.85610E+04
75 027 1135	75 034 1205	.	1.05000E+07	.
75 034 1255	75 041 1300	3.9	1.92000E+07	3.90407E+05
75 041 1300	75 049 1350	6.6	1.54000E+07	5.29927E+05
75 049 1350	75 055 1220	2.3	9.00000E+06	1.07925E+05
75 055 1220	75 062 1240	4.9	1.16000E+07	2.96350E+05
75 062 1240	75 069 1415	8.3	6.64000E+06	2.87341E+05
75 069 1415	75 076 1330	24.0	3.18000E+07	3.97914E+06
75 076 1330	75 083 1400	84.0	6.04000E+07	2.64526E+07
75 083 1400	75 090 1300	39.2	2.56000E+07	5.23212E+06
75 090 1300	75 097 1240	4.8	1.34000E+07	3.35349E+05
75 097 1240	75 104 1225	.	9.38000E+06	.
75 104 1225	75 111 1225	0.6	1.36000E+07	4.25443E+04
75 111 1225	75 118 1225	.	1.55000E+07	.
75 118 1225	75 125 1320	.	2.88000E+07	.
75 125 1320	75 132 1150	8.4	2.09000E+07	9.15328E+05
75 132 1150	75 139 1205	14.3	2.03000E+07	1.51350E+06
75 139 1205	75 147 1150	.	8.91000E+06	.
75 147 1150	75 153 1400	30.5	5.75000E+06	9.14364E+05
75 153 1400	75 160 1210	.	4.05000E+06	.
75 160 1210	75 167 1130	26.9	3.66000E+06	5.13316E+05
75 167 1130	75 174 1135	.	5.84000E+06	.
75 174 1135	75 181 .	.	1.05000E+06	.
75 181 .	75 188 1055	.	1.10000E+05	.
75 188 1055	75 195 1240	109.7	4.92000E+07	2.81399E+07
75 195 1240	75 202 1200	42.9	2.68000E+07	5.99437E+06
75 202 1200	75 209 1245	23.8	6.30000E+06	7.81752E+05
75 209 1245	75 216 1115	11.5	4.15000E+06	2.48827E+05
75 216 1115	75 223 1140	25.7	3.90000E+06	5.22576E+05
75 223 1140	75 230 1220	68.6	1.73000E+07	6.18759E+06
75 230 1220	75 237 1120	.	2.62000E+06	.
75 237 1040	75 244 1040	60.2	1.04000E+07	3.26423E+06
75 244 1040	75 251 1145	11.9	7.60000E+06	4.71533E+05
75 251 1145	75 258 1200	10.1	2.58000E+06	1.35860E+05
75 258 1200	75 265 1205	.	3.69000E+06	.
75 265 1205	75 272 1230	75.0	9.24000E+07	3.61314E+07
75 272 1230	75 280 0940	.	1.26000E+07	.
75 280 0940	75 287 0940	18.6	1.89000E+07	1.83285E+06
75 287 0940	75 293 1010	12.0	1.68000E+07	1.05109E+06
75 293 1010	75 301 1055	10.6	1.26000E+07	6.96350E+05

WEIR 102 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 301 1055	75 307 1050	.	8.76000E+06	.
75 307 1050	75 314 1345	16.4	7.61000E+06	6.50699E+05
75 314 1345	75 321 0940	17.4	2.33000E+07	2.11376E+06
75 321 0940	75 328 1205	12.1	1.09000E+07	6.87643E+05
75 328 1205	75 335 1200	9.1	8.14000E+06	3.86204E+05
WINTER 1975		8.2	1.49280E+08	5.86372E+06
SPRING 1975		23.8	2.60980E+08	3.96722E+07
SUMMER 1975		46.2	1.35380E+08	4.56526E+07
FALL 1975		19.3	2.25880E+08	4.41574E+07
TOTAL 1975		22.4	7.71520E+08	1.35346E+08

WEIR 102 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 335 1200	75 342 1100	7.0	7.42000E+06	2.70803E+05
75 342 1100	75 349 1205	12.3	9.05000E+06	5.80370E+05
75 349 1205	75 356 1010	16.6	6.46000E+06	5.59103E+05
75 356 1010	75 363 1120	18.0	1.40000E+07	1.31387E+06
75 363 1120	76 005 1145	66.1	7.45000E+07	2.56749E+07
76 005 1145	76 012 1130	.	3.20000E+07	.
76 012 1130	76 019 1235	8.1	1.61000E+07	6.79927E+05
76 019 1235	76 026 1117	.	1.43000E+07	.
76 026 1117	76 033 1235	27.4	5.81000E+07	8.30000E+06
76 033 1235	76 040 1057	.	1.65000E+07	.
76 040 1057	76 047 0915	.	1.48000E+07	.
76 047 0915	76 054 1055	.	1.60000E+07	.
76 054 1055	76 061 1040	.	1.29000E+07	.
76 061 1040	76 068 1100	19.9	1.06000E+07	1.09979E+06
76 068 1100	76 075 1115	23.4	2.34000E+07	2.85485E+06
76 075 1115	76 082 1110	12.6	1.72000E+07	1.12993E+06
76 082 1110	76 089 1110	13.9	1.27000E+07	9.20386E+05
76 089 1110	76 096 1105	6.5	2.65000E+07	8.98071E+05
76 096 1105	76 103 1052	15.0	1.28000E+07	1.00104E+06
76 103 1052	76 110 1110	24.7	8.88000E+06	1.14357E+06
76 110 1110	76 117 1010	9.1	6.66000E+06	3.15985E+05
76 117 1010	76 124 1040	31.4	1.04000E+07	1.70261E+06
76 124 1040	76 131 1008	17.6	4.70000E+06	4.31283E+05
76 131 1008	76 138 1010	26.1	3.54000E+06	4.81721E+05
76 138 1010	76 145 1005	62.8	3.14000E+06	1.02811E+06
76 145 1005	76 153 1020	77.0	6.85000E+06	2.75000E+06
76 153 1020	76 159 1035	63.1	1.91000E+07	6.28368E+06
76 159 1035	76 166 1010	99.2	4.50000E+05	2.32742E+05
76 166 1010	76 173 1035	89.7	2.57000E+06	1.20192E+06
76 173 1035	76 180 1112	67.6	.	.
76 188 1030	76 194 1022	.	2.64000E+05	.
76 194 1022	76 201 1010	132.7	3.53000E+06	2.44229E+06
76 201 1010	76 208 1020	24.4	1.39000E+04	1.76830E+03
76 208 1020	76 215 1120	66.5	5.80000E+04	2.01095E+04
76 215 1120	76 222 1030	107.3	3.37000E+06	1.88530E+06
76 222 1030	76 229 1100	65.8	6.32000E+06	2.16818E+06
76 229 1100	76 236 1032	17.9	6.64000E+05	6.19687E+04
76 236 1032	76 243 1035	52.4	2.71000E+05	7.40375E+04
76 243 1035	76 251 1045	.	0.00000E+00	.
76 243 1035	76 251 1045	.	.	.
76 257 1010	76 264 1025	30.9	2.11000E+06	3.39932E+05
76 264 1025	76 271 1040	.	1.33000E+04	.
76 271 1040	76 278 1105	.	7.04000E+06	.
76 278 1105	76 286 1140	67.5	1.95000E+07	6.86262E+06
76 286 1140	76 292 1100	3.9	3.09000E+06	6.28311E+04
76 292 1100	76 300 1145	26.2	3.30000E+07	4.50782E+06
76 300 1145	76 306 1150	12.2	1.99000E+07	1.26580E+06

WEIR 102 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
76 306 1150	76 313 1153	1.2	1.04000E+07	6.50678E+04
76 313 1153	76 320 1125	3.1	6.09000E+06	9.84307E+04
76 320 1125	76 327 1145	38.0	5.07000E+06	1.00448E+06
76 327 1145	76 334 1320	23.1	5.02000E+06	6.04599E+05
WINTER 1976		22.2	2.92130E+08	3.73789E+07
SPRING 1976		26.1	1.47370E+08	1.60573E+07
SUMMER 1976		71.5	3.66109E+08	1.43719E+07
FALL 1976		22.9	1.11233E+08	1.48116E+07
TOTAL 1976		37.2	5.87344E+08	8.26197E+07

WEIR 103 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
74 336 1120	74 343 1130	22.1	4.83000E+06	4.20911E+05
74 343 1130	74 350 1245	152.5	4.11000E+06	2.47151E+06
74 350 1245	74 357 1050	12.1	8.10000E+06	3.86475E+05
74 357 1050	74 364 1040	2.0	2.80000E+06	2.20820E+04
74 364 1040	75 006 1200	.	3.72000E+06	.
75 006 1200	75 013 1200	7.4	1.02000E+07	2.97634E+05
75 013 1200	75 020 1040	26.9	1.71000E+07	1.81384E+06
75 020 1040	75 027 1155	3.6	1.65000E+07	2.34227E+05
75 027 1155	75 034 1400	3.7	9.57000E+06	1.39625E+05
75 034 1400	75 041 1455	5.0	2.09000E+07	4.12066E+05
75 041 1455	75 049 1600	6.2	1.64000E+07	4.00946E+05
75 049 1600	75 055 1425	23.4	1.01000E+07	9.31940E+05
75 055 1425	75 062 1420	19.1	1.30000E+07	9.79101E+05
75 062 1420	75 069 1355	27.0	8.10000E+06	8.62382E+05
75 069 1355	75 076 1600	40.5	3.77000E+07	6.02070E+06
75 076 1600	75 083 1545	46.2	6.80000E+07	1.23880E+07
75 083 1545	75 090 1350	46.1	3.23000E+07	5.87157E+06
75 090 1350	75 097 1540	4.0	1.87000E+07	2.94953E+05
75 097 1540	75 104 1540	4.0	1.34000E+07	2.11356E+05
75 104 1540	75 111 1555	3.0	1.92000E+07	2.27129E+05
75 111 1555	75 118 1540	5.3	2.29000E+07	4.78588E+05
75 118 1540	75 125 1615	21.1	3.86000E+07	3.21159E+06
75 125 1615	75 132 1610	25.3	3.02000E+07	3.01285E+06
75 132 1610	75 139 1515	16.7	2.99000E+07	1.96897E+06
75 139 1515	75 147 .	11.5	1.48000E+07	6.71136E+05
75 147 1435	75 153 1705	34.5	1.01000E+07	1.37401E+06
75 153 1705	75 160 1540	12.4	7.29000E+06	3.56451E+05
75 160 1540	75 167 1505	46.0	6.65000E+06	1.20623E+06
75 167 1505	75 174 1245	276.0	1.25000E+07	1.36041E+07
75 174 1245	75 181 .	31.7	2.13000E+06	2.66250E+05
75 181 .	75 188 1310	.	3.92000E+05	.
75 188 1310	75 195 1600	155.8	4.75000E+07	2.91818E+07
75 195 1600	75 202 1515	97.3	2.91000E+07	1.11649E+07
75 202 1515	75 209 1400	28.6	7.22000E+06	8.14243E+05
75 209 1400	75 216 .	21.7	3.15000E+06	2.69539E+05
75 216 .	75 223 1450	57.7	4.09000E+06	9.30572E+05
75 223 1450	75 230 1530	8.4	1.15000E+07	3.80915E+05
75 230 1530	75 239 1040	6.3	7.61000E+06	1.89050E+05
75 239 1040	75 244 1220	118.8	5.51000E+06	2.58118E+06
75 244 1220	75 251 1415	19.2	4.30000E+06	3.25552E+05
75 251 1500	75 258 1500	12.8	2.32000E+06	1.17098E+05
75 258 1500	75 265 1500	.	3.03000E+06	.
75 265 1500	75 272 1445	155.8	8.88000E+07	5.45546E+07
75 272 1445	75 280 1220	.	1.65000E+07	.
75 280 1220	75 287 .	.	2.45000E+07	.
75 287 0940	75 293 1215	.	1.88000E+07	.
75 293 1215	75 301 1240	.	1.66000E+07	.

WEIR 103 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 301 1240	75 307 .	.	1.16000E+07	.
75 307 1332	75 314 .	.	1.27000E+07	.
75 314 1605	75 322 1315	.	2.94000E+07	.
75 322 1515	75 328 1600	21.9	1.28000E+07	1.10536E+06
75 328 1600	75 335 1555	2.7	1.23000E+07	1.30954E+05
WINTER 1975		23.7	1.37330E+08	8.51036E+06
SPRING 1975		21.9	3.43900E+08	3.65933E+07
SUMMER 1975		71.7	1.44642E+08	6.09453E+07
FALL 1975		42.5	2.53650E+08	5.62335E+07
TOTAL 1975		39.1	8.79522E+08	1.62282E+08

WEIR 103 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 335 1555	75 342 1430	2.6	1.13000E+07	1.15852E+05
75 342 1430	75 349 1542	4.1	1.35000E+07	2.18257E+05
75 349 1542	75 356 1210	.	9.74000E+06	.
75 356 1210	75 363 1330	38.5	1.89000E+07	2.86928E+06
75 363 1330	76 005 1500	304.4	8.25000E+07	9.90260E+07
76 005 1500	76 012 1500	.	4.10000E+07	.
76 012 1500	76 019 1430	5.7	2.28000E+07	5.12461E+05
76 019 1430	76 026 1525	.	1.84000E+07	.
76 026 1525	76 033 1525	44.7	7.02000E+07	1.23736E+07
76 033 1525	76 040 1605	.	3.16000E+07	.
76 040 1605	76 047 1150	13.6	2.27000E+07	1.21735E+06
76 047 1150	76 054 1510	24.9	2.41000E+07	2.36629E+06
76 054 1510	76 061 1400	22.8	1.91000E+07	1.71719E+06
76 061 1400	76 068 1420	27.3	1.78000E+07	1.91617E+06
76 068 1420	76 075 1545	31.3	3.35000E+07	4.13466E+06
76 075 1545	76 082 1510	16.6	2.51000E+07	1.64298E+06
76 082 1510	76 089 1400	14.8	1.97000E+07	1.14968E+06
76 089 1400	76 096 1505	20.1	3.43000E+07	2.71857E+06
76 096 1505	76 103 1435	17.2	1.92000E+07	1.30221E+06
76 103 1435	76 110 1440	35.2	1.50000E+07	2.08202E+06
76 110 1440	76 117 1515	25.4	1.24000E+07	1.24196E+06
76 117 1515	76 124 1525	398.2	1.80000E+07	2.82634E+07
76 124 1525	76 131 1450	6.8	8.14000E+06	2.18265E+05
76 131 1450	76 138 1500	11.6	6.03000E+06	2.75820E+05
76 138 1500	76 145 1430	21.8	5.93000E+06	5.09756E+05
76 145 1430	76 153 1500	64.9	1.28000E+07	3.27571E+06
76 153 1500	76 159 1455	8.0	3.17000E+06	1.00000E+05
76 159 1455	76 166 1530	19.6	9.57000E+05	7.39637E+04
76 166 1530	76 173 1537	28.6	2.20000E+06	2.48107E+05
76 173 1537	76 180 1522	14.7	4.77000E+05	2.76494E+04
76 188 1430	76 194 1430	.	0.00000E+00	.
76 194 1430	76 201 1500	95.5	2.44000E+06	9.18849E+05
76 201 1500	76 208 1435	.	3.66000E+03	.
76 208 1435	76 215 1435	.	8.32000E+04	.
76 215 1435	76 222 1445	.	9.32000E+05	.
76 222 1445	76 229 1500	73.8	8.02000E+06	2.33390E+06
76 229 1500	76 236 1410	20.5	6.57000E+05	5.31092E+04
76 236 1410	76 243 1415	.	2.85000E+02	.
76 257 1440	76 264 1425	104.0	3.07000E+06	1.25899E+06
76 264 1425	76 271 1445	.	7.73000E+00	.
76 271 1445	76 278 1520	73.6	6.74000E+06	1.95609E+06
76 278 1520	76 286 1506	81.5	1.62000E+07	5.20623E+06
76 286 1506	76 292 1445	7.1	3.45000E+06	9.65891E+04
76 292 1445	76 300 1450	86.8	3.51000E+07	1.20137E+07
76 300 1450	76 306 1630	16.4	2.08000E+07	1.34511E+06
76 306 1630	76 313 1620	1.9	1.31000E+07	9.81467E+04
76 313 1620	76 320 1455	2.0	9.12000E+06	7.19243E+04

WEIR 103 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
76 320 1455	76 327 1530	14.6	6.66000E+06	3.83423E+05
76 327 1530	76 334 1700	4.4	7.89000E+06	1.36893E+05
WINTER 1976		51.26	3.85840E+08	1.20416E+08
SPRING 1976		53.2	2.27900E+08	4.87312E+07
SUMMER 1976		37.2	1.89401E+07	3.75558E+06
FALL 1976		39.2	1.22130E+08	4.30987E+07
TOTAL 1976		46.3	7.54810E+08	2.16001E+08

WEIR 105 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 006 1535	75 013 1500	10.0	2.15000E+06	5.73333E+05
75 013 1500	75 020 1150	10.3	3.43000E+06	9.42107E+05
75 020 1140	75 027 1320	3.1	3.41000E+06	2.81893E+05
75 027 1320	75 034 1035	.	1.91000E+06	.
75 034 1035	75 041 1130	3.5	3.92000E+06	3.65867E+05
75 041 1130	75 049 1100	2.3	2.94000E+06	1.80320E+05
75 049 1100	75 055 1100	6.3	1.74000E+06	2.92320E+05
75 055 1100	75 062 1120	5.5	2.33000E+06	3.41733E+05
75 062 1120	75 069 1050	.	1.50000E+06	.
75 069 1050	75 076 1150	32.1	6.44000E+06	5.51264E+06
75 076 1150	75 083 1220	105.2	1.22000E+07	3.42251E+07
75 083 1220	75 090 1110	14.7	5.53000E+06	2.16776E+06
75 090 1110	75 097 1110	10.7	2.83000E+06	8.07493E+05
75 097 1110	75 104 1105	.	1.82000E+06	.
75 104 1105	75 111 1050	.	2.65000E+06	.
75 111 1050	75 118 1100	6.8	3.19000E+06	5.78453E+05
75 118 1100	75 125 1130	16.1	5.68000E+06	2.43861E+06
75 125 1130	75 132 1040	13.5	3.77000E+06	1.35720E+06
75 132 1040	75 139 1040	15.2	4.08000E+06	1.65376E+06
75 139 1040	75 147 1035	.	1.66000E+06	.
75 147 1035	75 153 1030	81.9	1.08000E+06	2.35872E+06
75 153 1030	75 160 1030	.	6.12000E+05	.
75 160 1030	75 167 1010	.	5.28000E+05	.
75 167 1010	75 174 1040	.	2.88000E+05	.
75 174 1040	75 181 .	.	4.02000E+04	.
75 181 .	75 188 0945	.	1.17000E+04	.
75 188 0945	75 195 1040	290.9	8.64000E+06	6.70234E+07
75 195 1040	75 202 1030	46.6	4.77000E+06	5.92752E+06
75 202 1030	75 209 1100	.	1.10000E+06	.
75 209 1100	75 216 1005	117.0	5.06000E+05	1.57872E+06
75 216 1005	75 223 1040	.	3.96000E+05	.
75 223 1040	75 230 1120	281.3	1.50000E+06	1.12520E+07
75 230 1120	75 237 0956	.	1.85000E+05	.
75 237 0956	75 244 0940	35.7	1.55000E+06	1.47560E+06
75 244 0940	75 251 1015	11.1	1.05000E+06	3.10800E+05
75 251 1045	75 258 1045	.	3.21000E+05	.
75 258 1040	75 265 1040	.	5.20000E+05	.
75 265 1040	75 272 1030	83.3	2.27000E+07	5.04243E+07
75 272 0840	75 280 0840	.	2.63000E+03	.
75 280 0840	75 287 0850	66.8	3.89000E+06	6.92939E+06
75 287 0850	75 293 0850	.	4.64000E+06	.
75 293 0850	75 301 0955	.	3.03000E+06	.
75 301 0955	75 307 0840	.	1.64000E+06	.
75 307 0840	75 314 1240	.	1.43000E+06	.
75 314 1240	75 321 1145	32.1	4.08000E+06	3.49248E+06
75 321 1145	75 328 1035	.	1.90000E+06	.
75 328 1035	75 335 1040	.	1.37000E+06	.

WEIR 105 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
WINTER 1975		5.9	2.18300E+07	2.97757E+06
SPRING 1975		32.9	5.24300E+07	5.10997E+07
SUMMER 1975		154.3	2.01269E+07	8.72572E+07
FALL 1975		48.3	4.65736E+07	6.11569E+07
TOTAL 1975		52.1	1.40961E+08	2.02491E+08

WEIR 105 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 335 1040	75 342 1000	.	1.12000E+06	.
75 342 1000	75 349 1100	.	1.34000E+06	.
75 349 1100	75 356 0915	.	8.87000E+05	.
75 356 0915	75 363 1010	.	2.28000E+06	.
75 363 1010	76 005 0930	170.6	1.70000E+07	7.73387E+07
76 005 0930	76 012 0900	43.0	6.78000E+06	7.77440E+06
76 012 0900	76 019 1030	.	3.19000E+06	.
76 019 1030	76 026 1255	.	2.38000E+06	.
76 026 1255	76 033 1055	39.0	1.22000E+07	1.26880E+07
76 033 1055	76 040 0913	4.5	4.89000E+06	5.86800E+05
76 040 0913	76 047 0757	.	3.13000E+06	.
76 047 0757	76 054 0920	.	3.21000E+06	.
76 054 0920	76 061 0910	7.1	2.43000E+06	4.60080E+05
76 061 0910	76 068 0940	18.6	1.91000E+06	9.47360E+05
76 068 0940	76 075 0948	18.2	4.45000E+06	2.15973E+06
76 075 0948	76 082 0940	5.0	3.64000E+06	4.85333E+05
76 082 0940	76 089 0955	7.5	2.30000E+06	4.60000E+05
76 089 0955	76 096 0945	19.6	4.91000E+06	2.56629E+06
76 096 0945	76 103 0940	18.7	2.18000E+06	1.08709E+06
76 103 0940	76 110 0940	19.3	1.55000E+06	7.97733E+05
76 110 0940	76 117 0850	21.3	1.10000E+06	6.24800E+05
76 117 0850	76 124 0915	30.8	1.87000E+06	1.53589E+06
76 124 0915	76 131 0845	8.3	5.75000E+05	1.27267E+05
76 131 0845	76 138 0845	10.9	5.44000E+05	1.58123E+05
76 138 0845	76 145 0845	14.5	4.13000E+05	1.59693E+05
76 145 0845	76 153 0855	11.4	8.03000E+05	2.44112E+05
76 153 0855	76 159 0934	12.3	1.53000E+05	5.01840E+04
76 159 0934	76 166 0834	19.9	2.20000E+04	1.16747E+04
76 166 0834	76 173 0936	45.0	3.57000E+05	4.28400E+05
76 173 0930	76 180 0935	64.7	2.81000E+04	4.84819E+04
76 180 0935	76 188 0830	.	1.31000E+04	.
76 188 0830	76 194 0855	24.2	5.16000E+04	3.32992E+04
76 194 0855	76 201 0845	59.8	4.08000E+05	6.50624E+05
76 201 0845	76 208 0840	27.4	1.20000E+04	8.76800E+03
76 208 0840	76 215 0932	33.5	5.79000E+04	5.17240E+04
76 215 0932	76 222 0905	297.8	3.44000E+06	2.73182E+07
76 222 0905	76 229 0930	32.6	1.32000E+06	1.14752E+06
76 229 0930	76 236 0905	22.0	1.41000E+05	8.27200E+04
76 236 0905	76 243 0918	17.9	2.12000E+04	1.01195E+04
76 243 0918	76 251 0900	13.6	1.18000E+04	4.27947E+03
76 251 0900	76 257 0904	12.4	6.49000E+03	2.14603E+03
76 257 0904	76 264 0900	7.5	7.22000E+04	1.44400E+04
76 264 0900	76 271 0920	9.8	9.13000E+03	2.38597E+03
76 271 0920	76 278 0924	10.9	6.04000E+05	1.75563E+05
76 278 0924	76 286 0940	15.8	2.19000E+06	9.22720E+05
76 286 0940	76 292 0930	7.4	4.30000E+05	8.48533E+04
76 292 0930	76 300 0930	17.1	6.12000E+06	2.79072E+06

WEIR 105 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
76 300 0930	76 306 1000	5.9	4.51000E+06	7.09573E+05
76 306 1000	76 313 1015	2.1	2.27000E+06	1.27120E+05
76 313 1015	76 320 0950	4.1	1.22000E+06	1.33387E+05
76 320 0950	76 327 1005	3.8	9.06000E+05	9.18080E+04
76 327 1005	76 334 1130	.	9.14000E+05	.
WINTER 1976		52.8	6.08370E+07	9.88480E+07
SPRING 1976		15.7	2.62450E+07	1.13534E+07
SUMMER 1976		54.8	6.02580E+06	2.98417E+07
FALL 1976		9.2	1.92636E+07	5.05900E+06
TOTAL 1976		29.4	1.12371E+08	1.45102E+08

WEIR 106 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 007 1605	75 013 1520	12.4	5.19000E+06	6.75299E+05
75 013 1520	75 020 1150	10.6	5.79000E+06	6.44008E+05
75 020 1150	75 027 1340	2.8	6.34000E+06	1.86275E+05
75 027 1340	75 034 1050	5.3	4.30000E+06	2.39140E+05
75 034 1050	75 041 1145	6.9	6.39000E+06	4.62655E+05
75 041 1145	75 049 1120	6.0	6.28000E+06	3.95383E+05
75 049 1120	75 055 1120	3.3	3.69000E+06	1.27775E+05
75 055 1120	75 062 1135	4.0	4.76000E+06	1.99790E+05
75 062 1135	75 069 1120	.	2.68000E+06	.
75 069 1120	75 076 1205	52.9	1.37000E+07	7.60472E+06
75 076 1205	75 083 1240	232.4	2.61000E+07	6.36478E+07
75 083 1240	75 090 1130	31.7	1.09000E+07	3.62571E+06
75 090 1130	75 097 1125	5.4	6.59000E+06	3.73410E+05
75 097 1125	75 104 1125	3.8	5.47000E+06	2.18111E+05
75 104 1125	75 111 1105	6.2	7.82000E+06	5.08751E+05
75 111 1105	75 118 1110	3.3	1.09000E+07	3.77440E+05
75 118 1110	75 125 1150	19.8	1.77000E+07	3.67744E+06
75 125 1150	75 132 1055	16.0	8.35000E+06	1.40189E+06
75 132 1055	75 139 1100	26.9	8.81000E+06	2.48677E+06
75 139 1100	75 147 1055	.	3.53000E+06	.
75 147 1055	75 153 1045	77.4	2.79000E+06	2.26596E+06
75 153 1045	75 160 1055	20.7	4.53000E+06	9.83956E+05
75 160 1055	75 167 1030	62.6	4.32000E+06	2.83769E+06
75 167 1030	75 174 1020	.	3.81000E+06	.
75 174 1020	75 181 .	.	1.74000E+06	.
75 181 .	75 188 1015	.	8.92000E+05	.
75 188 1015	75 195 1050	772.3	2.37000E+07	1.92062E+08
75 195 1050	75 202 .	108.1	1.14000E+07	1.29312E+07
75 202 .	75 209 1145	38.0	2.58000E+06	1.02875E+06
75 209 1145	75 216 1020	282.5	1.71000E+06	5.06899E+06
75 216 1020	75 223 1055	85.4	1.37000E+06	1.22768E+06
75 223 1055	75 230 1130	365.7	5.59000E+06	2.14508E+07
75 230 1130	75 237 1013	.	7.39000E+05	.
75 237 1013	75 244 0930	34.7	4.93000E+06	1.79508E+06
75 244 0930	75 251 1040	79.0	2.62000E+06	2.17188E+06
75 251 1100	75 258 1100	.	7.00000E+05	.
75 258 1100	75 265 1100	41.7	1.72000E+06	7.52613E+05
75 265 1100	75 272 1040	336.2	5.13000E+07	1.80976E+08
75 272 1040	75 280 0850	21.9	6.10000E+06	1.40178E+06
75 280 0850	75 287 0855	.	8.64000E+06	.
75 287 0855	75 293 0900	49.6	1.01000E+07	5.25666E+06
75 293 0900	75 301 1005	47.7	6.64000E+06	3.32348E+06
75 301 1005	75 307 0850	54.5	4.20000E+06	2.40189E+06
75 307 0850	75 314 1250	51.8	4.12000E+06	2.23941E+06
75 314 1250	75 321 1155	83.0	1.06000E+07	9.23190E+06
75 321 1155	75 328 1040	28.5	4.86000E+06	1.45341E+06
75 328 1040	75 335 1055	20.6	3.91000E+06	8.45184E+05

WEIR 106 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
WINTER 1975		6.4	4.27400E+07	2.93033E+06
SPRING 1975		43.3	1.25340E+08	8.61880E+07
SUMMER 1975		196.7	6.73110E+07	2.39386E+08
FALL 1975		74.0	1.15510E+08	2.10055E+08
TOTAL 1975		79.8	3.50901E+08	5.38559E+08

WEIR 106 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 335 1055	75 342 1010	10.8	3.49000E+06	3.95509E+05
75 342 1010	75 349 1105	17.0	4.30000E+06	7.67051E+05
75 349 1105	75 356 0925	70.2	2.92000E+06	2.15093E+06
75 356 0925	75 363 1015	.	6.42000E+06	.
75 363 1015	76 005 1040	57.9	3.50000E+07	2.12644E+07
76 005 1040	76 012 0915	30.7	1.36000E+07	4.38111E+06
76 012 0915	76 019 1035	.	6.89000E+06	.
76 019 1035	76 026 1013	.	4.59000E+06	.
76 026 1013	76 033 1545	105.7	2.82000E+07	3.12774E+07
76 033 1545	76 040 0932	.	1.04000E+07	.
76 040 0932	76 047 0810	.	7.46000E+06	.
76 047 0810	76 054 0935	.	7.61000E+06	.
76 054 0935	76 061 0925	.	5.62000E+06	.
76 061 0925	76 068 1000	.	4.99000E+06	.
76 068 1000	76 075 1015	30.4	1.04000E+07	3.31752E+06
76 075 1015	76 082 0950	.	7.29000E+06	.
76 082 0950	76 089 1015	.	5.60000E+06	.
76 089 1015	76 096 1000	.	1.09000E+07	.
76 096 1000	76 103 0957	.	5.19000E+06	.
76 103 0957	76 110 0955	.	3.79000E+06	.
76 110 0955	76 117 0905	.	3.00000E+06	.
76 117 0905	76 124 0937	57.3	4.90000E+06	2.94617E+06
76 124 0937	76 131 0910	18.2	1.83000E+06	3.49486E+05
76 131 0910	76 138 0905	41.2	1.45000E+06	6.26863E+05
76 138 0905	76 145 0905	59.2	1.50000E+06	9.31794E+05
76 145 0905	76 153 0920	51.3	3.00000E+06	1.61490E+06
76 153 0920	76 159 0852	28.0	9.82000E+05	2.88520E+05
76 159 0852	76 166 0850	50.3	1.49000E+05	7.86432E+04
76 166 0850	76 173 0950	.	1.33000E+06	.
76 173 0950	76 180 1000	.	1.39000E+05	.
76 180 1000	76 188 0900	127.3	1.19000E+05	1.58958E+05
76 188 0900	76 194 0900	.	2.60000E+05	.
76 194 0900	76 201 0915	.	1.59000E+06	.
76 201 0915	76 208 0925	.	2.87000E+04	.
76 208 0925	76 215 0950	.	1.76000E+05	.
76 215 0950	76 222 0930	273.6	9.15000E+06	2.62690E+07
76 222 0930	76 229 1000	50.5	4.24000E+06	2.24680E+06
76 229 1000	76 236 0933	21.6	5.50000E+05	1.24659E+05
76 236 0933	76 243 0940	55.7	1.64000E+05	9.58531E+04
76 243 0940	76 251 0945	.	2.58000E+04	.
76 257 0915	76 264 0940	.	2.46000E+05	.
76 271 0940	76 278 0945	52.3	1.54000E+06	8.45142E+05
76 278 0945	76 286 1000	71.5	6.77000E+06	5.07928E+06
76 286 1000	76 292 0955	23.2	1.43000E+06	3.48122E+05
76 292 0955	76 300 0950	.	1.22000E+07	.
76 300 0950	76 306 1020	29.3	7.84000E+06	2.41041E+06
76 306 1020	76 313 1040	9.1	3.62000E+06	3.45666E+05

WEIR 106 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
76 313 1040	76 320 1017	.	2.12000E+06	.
76 320 1017	76 327 1030	16.1	1.73000E+06	2.92267E+05
76 327 1030	76 334 1205	.	1.86000E+06	.
WINTER 1976		48.72	1.36500E+08	6.02364E+07
SPRING 1976		42.9	6.38400E+07	9.78673E+06
SUMMER 1976		86.7	1.88777E+07	2.92624E+07
FALL 1976		40.3	3.93818E+07	9.32089E+06
TOTAL 1976		54.34	2.58600E+08	1.08606E+08

WEIR 107 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
74 336 1500	74 343 1400	.	1.18000E+06	.
74 343 1400	74 350 1610	108.5	1.53000E+06	5.88670E+06
74 350 1610	74 357 1345	17.7	1.08000E+06	6.77872E+05
74 357 1345	74 364 1330	.	5.51000E+05	.
74 364 1330	75 006 1000	.	5.93000E+05	.
75 006 1000	75 013 1600	159.5	2.58000E+06	1.45926E+07
75 013 1600	75 021 1220	35.1	2.94000E+06	3.65936E+06
75 021 1220	75 027 1020	29.4	2.34000E+06	2.43957E+06
75 027 1020	75 034 0955	.	1.80000E+06	.
75 034 0955	75 041 1030	7.4	4.05000E+06	1.06277E+06
75 041 1030	75 049 1025	155.1	3.04000E+06	1.67200E+07
75 049 1025	75 055 1020	55.7	1.74000E+06	3.43681E+06
75 055 1020	75 062 1040	66.2	2.43000E+06	5.70447E+06
75 062 1040	75 069 1000	.	1.45000E+06	.
75 069 1120	75 076 1045	141.5	6.52000E+06	3.27156E+07
75 076 1045	75 083 1110	226.6	7.84000E+06	6.29980E+07
75 083 1110	75 090 1030	45.7	4.25000E+06	6.88741E+06
75 090 1030	75 097 1025	15.3	3.49000E+06	1.89351E+06
75 097 1025	75 104 .	.	2.05000E+06	.
75 104 .	75 111 1015	38.4	2.28000E+06	3.10468E+06
75 111 1015	75 118 1005	12.4	2.40000E+06	1.05532E+06
75 118 1005	75 125 1045	103.6	4.05000E+06	1.48787E+07
75 125 1045	75 132 1000	92.3	2.93000E+06	9.59004E+06
75 132 1000	75 139 0950	73.1	3.73000E+06	9.66890E+06
75 139 0950	75 147 0950	.	1.61000E+06	.
75 147 0950	75 153 0945	348.6	1.15000E+06	1.42160E+07
75 153 0945	75 160 0940	.	1.06000E+06	.
75 160 0940	75 167 0935	.	9.51000E+05	.
75 167 0935	75 174 1107	.	9.19000E+05	.
75 174 1107	75 181 .	.	4.55000E+05	.
75 181 .	75 188 0910	.	2.42000E+05	.
75 188 0910	75 195 0955	842.2	4.22000E+06	1.26031E+08
75 195 0955	75 202 1000	221.3	3.68000E+06	2.88789E+07
75 202 1000	75 209 1015	30.1	1.49000E+06	1.59039E+06
75 209 1015	75 216 .	.	6.43000E+05	.
75 216 .	75 223 1000	.	7.57000E+05	.
75 223 1000	75 230 1045	635.3	8.28000E+05	1.86535E+07
75 230 1045	75 237 0908	.	4.52000E+05	.
75 237 0908	75 244 0855	8.1	8.49000E+05	2.43862E+05
75 244 0855	75 251 0935	1.3	8.00000E+05	3.68794E+04
75 251 1000	75 258 1000	.	4.49000E+05	.
75 258 1015	75 265 1015	.	.	.
75 265 1015	75 272 0950	162.6	.	.
WINTER 1975		70.5	2.58540E+07	5.41801E+07
SPRING 1975		109.7	4.37500E+07	1.57008E+08

WEIR 107 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
SUMMER 1975		347.4	1.65460E+07	1.75398E+08
FALL 1975		81.9	1.24900E+06	3.68794E+04
TOTAL 1975		139.7	8.73990E+07	3.86623E+08

WEIR 107 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
76 154 1630	76 159 0810	1.9	4.16000E+05	2.80284E+04
76 159 0810	76 166 0750	17.9	3.55000E+05	2.25337E+05
76 166 0750	76 173 0850	166.2	8.08000E+05	4.76204E+06
76 173 0850	76 180 0840	8.8	2.81000E+05	8.76879E+04
76 180 0840	76 188 0750	25.9	2.06000E+05	1.89199E+05
76 188 0750	76 194 0800	57.5	2.11000E+05	4.30230E+05
76 194 0800	76 201 0806	144.8	6.72000E+05	3.45055E+06
76 201 0806	76 208 0805	36.3	1.41000E+05	1.81500E+05
76 208 0805	76 215 0845	48.6	9.69000E+04	1.66998E+05
76 215 0845	76 222 0820	542.3	1.43000E+06	2.74996E+07
76 222 0820	76 229 0850	84.7	9.24000E+05	2.77528E+06
76 229 0850	76 236 0812	9.9	1.90000E+05	6.67021E+04
76 236 0812	76 243 0840	25.4	6.83000E+04	6.15184E+04
76 243 0840	76 251 0815	481.6	2.20000E+03	3.75716E+04
76 257 0825	76 264 0830	24.0	6.19000E+04	5.26809E+04
76 264 0830	76 271 0840	.	0.00000E+00	.
76 271 0840	76 278 0840	72.1	5.19000E+05	1.32695E+06
76 278 0840	76 286 0900	47.9	1.70000E+06	2.88759E+06
76 286 0900	76 292 0840	7.4	4.63000E+05	1.21496E+05
76 292 0840	76 300 0900	16.7	2.40000E+06	1.42128E+06
76 300 0900	76 306 0930	7.8	1.88000E+06	5.20000E+05
76 306 0930	76 313 0940	1.2	9.90000E+05	4.21277E+04
76 313 0940	76 320 0910	13.7	6.96000E+05	3.38128E+05
76 320 0910	76 327 0930	6.2	5.82000E+05	1.27957E+05
76 327 0930	76 334 1040	5.9	3.91000E+05	8.18050E+04
WINTER 1976		.	.	.
SPRING 1976		.	.	.
SUMMER 1976		90.0	5.79920E+06	3.99247E+07
FALL 1976		62.2	9.68510E+06	6.95759E+06
TOTAL 1976		77.3	1.54843E+07	4.68823E+07

WEIR 108 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
74 336 1200	74 343 1220	44.2	6.50000E+06	1.91024E+06
74 343 1220	74 350 1325	37.1	7.07000E+06	1.74400E+06
74 350 1325	74 357 1120	34.6	8.92000E+06	2.05207E+06
74 357 1120	74 364 1110	2.7	2.57000E+06	4.61370E+04
74 364 1110	75 006 1315	3.9	3.18000E+06	8.24601E+04
75 006 1315	75 013 1245	5.2	6.23000E+06	2.15399E+05
75 013 1245	75 020 1110	11.9	1.15000E+07	9.09907E+05
75 020 1110	75 027 1240	2.0	1.05000E+07	1.39628E+05
75 027 1240	75 034 1340	1.0	6.94000E+06	4.61436E+04
75 034 1340	75 041 1340	4.2	1.27000E+07	3.54654E+05
75 041 1340	75 049 1455	21.0	1.06000E+07	1.48005E+06
75 049 1455	75 055 1345	3.7	6.55000E+06	1.61137E+05
75 055 1345	75 062 1340	5.1	8.26000E+06	2.80093E+05
75 062 1340	75 069 1230	18.1	5.57000E+06	6.70326E+05
75 069 1230	75 076 1445	56.1	4.41000E+07	1.64495E+07
75 076 1445	75 083 1500	41.5	3.64000E+07	1.00439E+07
75 083 1500	75 090 1405	29.7	2.49000E+07	4.91709E+06
75 090 1405	75 097 1510	3.3	1.12000E+07	2.45745E+05
75 097 1510	75 104 1525	4.0	8.94000E+06	2.37766E+05
75 104 1525	75 111 1530	5.2	1.20000E+07	4.14894E+05
75 111 1530	75 118 1500	2.4	1.22000E+07	1.94681E+05
75 118 1500	75 125 1545	18.5	2.28000E+07	2.80452E+06
75 125 1545	75 132 1545	48.7	1.93000E+07	6.24940E+06
75 132 1545	75 139 1440	26.6	1.19000E+07	2.10465E+06
75 139 1440	75 147 1415	11.9	9.20000E+06	7.27926E+05
75 147 1415	75 153 1630	62.4	9.92000E+06	4.11574E+06
75 153 1630	75 160 1510	18.2	6.59000E+06	7.97460E+05
75 160 1510	75 167 1400	60.0	6.61000E+06	2.63697E+06
75 167 1400	75 174 1300	180.0	4.48000E+06	5.36170E+06
75 174 1300	75 181 .	58.4	1.95000E+06	7.57181E+05
75 181 .	75 188 1230	35.6	6.73000E+05	1.59301E+05
75 188 1230	75 195 1515	113.3	4.57000E+07	3.44269E+07
75 195 1515	75 202 1440	11.2	2.51000E+07	1.86915E+06
75 202 1440	75 209 1330	34.1	6.67000E+06	1.51228E+06
75 209 1330	75 216 .	32.6	2.61000E+06	5.65731E+05
75 216 .	75 223 1400	25.6	6.27000E+06	1.06723E+06
75 223 1400	75 230 1515	18.0	8.58000E+06	1.02686E+06
75 230 1515	75 237 1345	.	1.56000E+06	.
75 237 1345	75 244 1155	65.4	9.72000E+06	4.22665E+06
75 244 1155	75 251 1325	25.4	4.44000E+06	7.49840E+05
75 251 1325	75 258 1445	.	1.63000E+06	.
75 258 1445	75 265 1440	25.9	3.49000E+06	6.01004E+05
75 265 1440	75 272 1415	.	1.14000E+08	.
75 272 1415	75 280 1150	20.3	1.32000E+07	1.78165E+06
75 280 1150	75 287 1220	58.1	2.13000E+07	8.22826E+06
75 287 1220	75 293 1145	33.3	1.72000E+07	3.80824E+06
75 293 1145	75 301 1210	67.1	1.32000E+07	5.88910E+06

WEIR 108 1975 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 301 1210	75 307 1320	43.5	8.68000E+06	2.51051E+06
75 307 1320	75 314 1545	39.2	8.49000E+06	2.21282E+06
75 314 1545	75 322 1255	86.4	2.23000E+07	1.28106E+07
75 322 1255	75 328 1540	31.0	8.63000E+06	1.77879E+06
75 328 1540	75 335 1520	7.2	8.23000E+06	3.93989E+05
WINTER 1975		13.6	1.01520E+08	9.42192E+06
SPRING 1975		25.3	2.28430E+08	4.91762E+07
SUMMER 1975		54.4	1.26513E+08	5.44074E+07
FALL 1975		39.8	2.44790E+08	4.07648E+07
TOTAL 1975		32.5	7.01253E+08	1.53770E+08

WEIR 108 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
75 335 1520	75 342 1400	12.1	7.60000E+06	6.11436E+05
75 342 1400	75 349 1515	15.1	8.45000E+06	8.48371E+05
75 349 1515	75 356 1130	41.9	6.45000E+06	1.79691E+06
75 356 1130	75 363 1300	45.5	1.29000E+07	3.90259E+06
75 363 1300	76 005 1430	87.1	6.84000E+07	3.96120E+07
76 005 1430	76 012 1415	.	4.48000E+07	.
76 012 1415	76 019 1400	25.5	1.55000E+07	2.62799E+06
76 019 1400	76 026 1500	.	1.25000E+07	.
76 026 1500	76 033 1450	27.6	7.20000E+07	1.32128E+07
76 033 1450	76 040 1515	33.4	2.41000E+07	5.35199E+06
76 040 1515	76 047 1125	27.2	1.43000E+07	2.58617E+06
76 047 1125	76 054 1430	45.8	1.44000E+07	4.38511E+06
76 054 1430	76 061 1325	92.2	1.11000E+07	6.80465E+06
76 061 1325	76 068 1340	91.6	1.01000E+07	6.15133E+06
76 068 1340	76 075 1305	170.4	1.76000E+07	1.99404E+07
76 075 1305	76 082 1445	65.3	1.25000E+07	5.42719E+06
76 082 1445	76 089 1315	118.0	1.04000E+07	8.15957E+06
76 089 1315	76 096 1415	.	1.81000E+07	.
76 096 1415	76 103 1318	.	9.90000E+06	.
76 103 1318	76 110 1340	67.2	8.16000E+06	3.64596E+06
76 110 1340	76 117 1307	33.6	6.78000E+06	1.51468E+06
76 117 1307	76 124 1330	87.3	9.58000E+06	5.56073E+06
76 121 1500	76 124 1330	.	.	.
76 124 1330	76 131 1235	19.2	4.33000E+06	5.52766E+05
76 131 1235	76 138 1340	109.8	4.11000E+06	3.00052E+06
76 138 1340	76 145 1310	157.2	4.61000E+06	4.81843E+06
76 145 1310	76 153 1320	444.4	7.07000E+06	2.08903E+07
76 153 1320	76 159 1345	16.4	1.71000E+06	1.86463E+05
76 159 1345	76 166 1345	162.2	3.47000E+05	3.74225E+05
76 166 1345	76 173 1425	.	1.28000E+07	.
76 173 1425	76 180 1400	20.0	6.33000E+05	8.41755E+04
76 188 1300	76 194 1308	599.7	5.86000E+05	2.33660E+06
76 194 1308	76 201 1300	587.6	5.80000E+06	2.26601E+07
76 201 1300	76 208 1325	24.9	4.28000E+03	7.08590E+02
76 208 1325	76 215 1315	70.5	8.47000E+04	3.97031E+04
76 215 1315	76 222 1305	681.8	6.63000E+06	3.00554E+07
76 222 1305	76 229 1325	93.5	6.59000E+06	4.09684E+06
76 229 1325	76 236 1235	13.6	4.80000E+05	4.34043E+04
76 236 1235	76 243 1255	23.5	4.94000E+05	7.71875E+04
76 243 1255	76 251 1330	9.3	3.30000E+02	2.04056E+01
76 251 1330	76 257 1340	.	0.00000E+00	.
76 257 1340	76 264 1305	9.9	4.84000E+05	3.18590E+04
76 264 1305	76 271 1330	6.2	0.00000E+00	0.00000E+00
76 271 1330	76 278 1340	24.4	3.91000E+06	6.34335E+05
76 278 1340	76 286 1350	106.6	1.69000E+07	1.19783E+07
76 286 1350	76 292 1320	4.9	1.59000E+06	5.18019E+04
76 292 1320	76 300 1330	43.0	2.43000E+07	6.94747E+06

WEIR 108 1976 MINERAL SUSPENDED SOLIDS
VOLUME INTEGRATED SAMPLES

FROM	TO	CONCENTRATION (MG/L)	TOTAL FLOW (L)	AREA YIELD (MG/HA)
76 300 1330	76 306 1505	18.9	1.51000E+07	1.89754E+06
76 306 1505	76 313 1455	2.1	6.31000E+06	8.81051E+04
76 313 1455	76 320 1335	0.8	4.41000E+06	2.34574E+04
76 320 1335	76 327 1400	2.5	3.81000E+06	6.33311E+04
76 327 1400	76 334 1555	4.6	4.20000E+06	1.28457E+05
WINTER 1976		41.2	3.12500E+08	8.17400E+07
SPRING 1976		179.1	1.23240E+08	7.96619E+07
SUMMER 1976		248.9	4.32290E+07	5.98706E+07
FALL 1976		191.1	8.10143E+07	2.18447E+07
TOTAL 1976		165.7	5.52913E+08	2.43201E+08

WEIR 101 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
74 336 1030	. . .	.	2.39000E+01	.
74 343 1045	. . .	.	2.51000E+01	.
74 350 1130	. . .	.	1.42000E+02	.
74 357 1000	. . .	.	8.27000E+00	.
74 364 0925	. . .	.	7.10000E+00	.
75 006 1115	. . .	.	6.05000E+00	.
75 013 1100	. . .	.	4.51000E+01	.
75 020 1000	. . .	.	5.97000E+01	.
75 027 1105	. . .	.	2.28000E+01	.
75 034 1145	. . .	.	1.76000E+01	.
75 041 1240	. . .	.	2.06000E+01	.
75 049 1340	. . .	.	2.17000E+01	.
75 055 1205	. . .	.	2.75000E+01	.
75 062 1225	. . .	.	1.49000E+01	.
75 069 1210	. . .	.	1.32000E+01	.
75 076 1320	. . .	.	7.70000E+01	.
75 083 1340	. . .	.	6.17000E+01	.
75 090 1245	. . .	.	4.85000E+01	.
75 097 1215	. . .	.	2.39000E+01	.
75 104 1210	. . .	.	1.96000E+01	.
75 111 1205	. . .	.	1.86000E+01	.
75 118 1205	. . .	.	2.63000E+01	.
75 125 1305	. . .	.	5.03000E+01	.
75 132 1135	. . .	.	2.28000E+01	.
75 139 1150	. . .	.	2.28000E+01	.
75 147 1130	. . .	.	1.49000E+01	.
75 153 1355	. . .	.	1.76000E+01	.
75 160 1150	. . .	.	6.56000E+00	.
75 167 .	. . .	.	5.55000E+00	.
75 174 1125	. . .	.	3.46000E+00	.
75 181 .	. . .	10.5	2.78000E+00	1.29216E-01
75 188 1045	. . .	25.0	1.93000E+00	2.13590E-01
75 195 1220	. . .	.	3.05000E+02	.
75 202 1140	. . .	.	6.59000E+01	.
75 209 1205	. . .	.	7.10000E+00	.
75 216 1100	. . .	.	3.11000E+00	.
75 223 1130	. . .	.	5.09000E+00	.
75 230 1200	. . .	.	2.28000E+01	.
75 237 1105	. . .	.	5.09000E+00	.
75 244 1020	. . .	.	4.18000E+01	.
75 251 1130	. . .	.	1.24000E+01	.
75 258 1145	. . .	9.6	4.23000E+00	1.79761E-01
75 265 1150	. . .	.	7.10000E+00	.
75 272 1200	. . .	.	4.02000E+01	.
75 280 0925	. . .	.	1.86000E+01	.
75 287 0920	. . .	.	2.63000E+01	.
75 293 0950	. . .	.	3.56000E+01	.

WEIR 101 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 301 1040	. . .	.	2.88000E+01	.
75 307 1040	. . .	.	1.86000E+01	.
75 314 1330	. . .	.	1.96000E+01	.
75 321 0920	. . .	.	2.39000E+01	.
75 328 1150	. . .	.	1.96000E+01	.
75 335 1145	. . .	.	2.28000E+01	.
WINTER 1975		.	4.42320E+02	.
SPRING 1975		.	4.32100E+02	.
SUMMER 1975		17.8	4.93770E+02	3.42807E-01
FALL 1975		9.6	3.19530E+02	1.79761E-01
TOTAL 1975		15.0	1.61342E+03	5.22568E-01

WEIR 101 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1145	. . .	.	2.28000E+01	.
75 342 1050	. . .	.	1.67000E+01	.
75 349 1145	. . .	.	1.67000E+01	.
75 356 1000	. . .	.	1.32000E+01	.
75 363 1110	. . .	.	2.17000E+01	.
76 005 1130	. . .	.	4.51000E+01	.
76 012 1100	. . .	.	4.02000E+01	.
76 019 1205	. . .	.	2.17000E+01	.
76 026 1050	. . .	12.9	3.14000E+01	1.79309E+00
76 033 1205	. . .	.	9.69000E+01	.
76 040 1038	. . .	.	3.28000E+01	.
76 047 0900	. . .	.	3.01000E+01	.
76 054 1020	. . .	.	3.28000E+01	.
76 061 1000	. . .	.	2.17000E+01	.
76 068 1040	. . .	.	1.96000E+01	.
76 075 1058	. . .	.	3.01000E+01	.
76 082 1050	. . .	.	2.28000E+01	.
76 089 1050	. . .	.	2.28000E+01	.
76 096 1045	. . .	.	3.28000E+01	.
76 103 1033	. . .	.	1.96000E+01	.
76 110 1040	. . .	.	1.67000E+01	.
76 117 0950	. . .	22.0	1.24000E+01	1.20761E+00
76 124 1017	. . .	.	2.06000E+01	.
76 131 0945	. . .	.	8.27000E+00	.
76 138 0945	. . .	.	8.27000E+00	.
76 145 0945	. . .	.	3.46000E+00	.
76 153 0955	. . .	.	1.09000E+01	.
76 159 1015	. . .	.	3.11000E+00	.
76 166 0947	. . .	.	1.07000E+00	.
76 173 1020	. . .	.	3.11000E+00	.
76 180 1045	. . .	.	3.88000E+01	.
76 188 0950	. . .	.	1.59000E+01	.
76 188 0950	. . .	.	.	.
76 188 0950	. . .	.	0.00000E+00	.
76 188 0950	. . .	.	.	.
76 194 0950	. . .	.	2.19000E+00	.
76 201 0950	. . .	.	2.19000E+00	.
76 215 1100	. . .	.	1.59000E+01	.
76 222 1012	. . .	.	7.24000E+01	.
76 229 1040	. . .	.	3.28000E+01	.
76 236 1010	. . .	.	1.69000E+00	.
76 243 1015	. . .	.	7.47000E+01	.
76 264 1000	. . .	.	1.07000E+00	.
76 271 1020	. . .	.	8.99000E+01	.
76 278 1040	. . .	.	1.32000E+01	.
76 286 1110	. . .	.	1.24000E+01	.
76 292 1040	. . .	.	7.67000E+00	.

WEIR 101 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
76 300 1105	. . .	.	1.08000E+02	.
76 313 1125	. . .	.	3.28000E+01	.
76 320 1105	. . .	.	1.32000E+01	.
76 327 1130	. . .	.	1.02000E+01	.
76 334 1300	. . .	.	2.88000E+01	.
WINTER 1976		12.9	4.43800E+02	1.79309E+00
SPRING 1976		22.0	2.50000E+02	1.20761E+00
SUMMER 1976		.	2.74760E+02	.
FALL 1976		.	3.91940E+02	.
TOTAL 1976		17.4	1.25320E+03	3.00071E+00

WEIR 102 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
74 336 1055	. . .	.	2.51000E+01	.
74 343 1105	. . .	.	1.96000E+01	.
74 350 1215	. . .	.	2.23000E+02	.
74 364 1015	. . .	.	9.54000E+00	.
75 006 1140	. . .	.	5.09000E+00	.
75 013 1125	. . .	.	3.14000E+01	.
75 027 1135	. . .	.	2.06000E+01	.
75 034 1205	. . .	0.2	1.40000E+01	1.45985E-02
75 041 1300	. . .	.	2.06000E+01	.
75 049 1350	. . .	.	1.96000E+01	.
75 055 1220	. . .	.	2.39000E+01	.
75 062 1240	. . .	.	1.24000E+01	.
75 069 1415	. . .	.	1.02000E+01	.
75 076 1330	. . .	.	7.47000E+01	.
75 083 1400	. . .	.	6.59000E+01	.
75 090 1300	. . .	.	2.75000E+01	.
75 097 1240	. . .	.	1.67000E+01	.
75 104 1225	. . .	2.3	1.32000E+01	1.58290E-01
75 111 1225	. . .	.	1.32000E+01	.
75 118 1225	. . .	7.2	2.17000E+01	8.14599E-01
75 125 1320	. . .	6.8	4.51000E+01	1.59896E+00
75 132 1150	. . .	.	1.96000E+01	.
75 139 1205	. . .	.	2.06000E+01	.
75 147 1150	. . .	11.9	1.02000E+01	6.32847E-01
75 153 1400	. . .	.	1.02000E+01	.
75 160 1210	. . .	11.4	3.83000E+00	2.27643E-01
75 167 1130	. . .	.	3.11000E+00	.
75 174 1135	. . .	.	1.69000E+00	.
75 181 .	. . .	26.2	1.69000E+00	2.30855E-01
75 195 1240	. . .	.	3.73000E+02	.
75 202 1200	. . .	.	5.21000E+01	.
75 209 1245	. . .	.	4.65000E+00	.
75 216 1115	. . .	.	2.48000E+00	.
75 223 1140	. . .	.	2.48000E+00	.
75 230 1220	. . .	.	1.40000E+01	.
75 237 1120	. . .	.	2.78000E+00	.
75 244 1040	. . .	.	3.42000E+01	.
75 251 1145	. . .	.	8.27000E+00	.
75 258 1200	. . .	.	2.48000E+00	.
75 265 1205	. . .	.	4.65000E+00	.
75 272 1220	. . .	.	3.14000E+01	.
75 280 0940	. . .	.	1.24000E+01	.
75 287 0940	. . .	.	1.67000E+01	.
75 293 1010	. . .	.	2.51000E+01	.
75 301 1055	. . .	.	1.49000E+01	.
75 307 1050	. . .	.	1.32000E+01	.
75 314 1345	. . .	.	1.40000E+01	.

WEIR 102 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 321 0940	. . .	.	1.96000E+01	.
75 328 1205	. . .	.	1.49000E+01	.
75 335 1200	. . .	.	1.86000E+01	.
WINTER 1975		0.2	4.24830E+02	1.45985E-02
SPRING 1975		7.0	3.61200E+02	3.20469E+00
SUMMER 1975		18.8	5.06210E+02	4.58498E-01
FALL 1975		.	2.30400E+02	.
TOTAL 1975		9.4	1.46584E+03	3.67779E+00

WEIR 102 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1200	. . .	.	1.86000E+01	.
75 342 1100	. . .	.	1.32000E+01	.
75 349 1205	. . .	.	1.32000E+01	.
75 356 1010	. . .	.	1.02000E+01	.
75 363 1120	. . .	.	1.76000E+01	.
76 005 1145	. . .	.	3.71000E+01	.
76 012 1130	. . .	19.1	3.86000E+01	3.84390E+00
76 019 1235	. . .	.	1.32000E+01	.
76 026 1117	. . .	37.2	2.88000E+01	5.58582E+00
76 033 1235	. . .	.	7.24000E+01	.
76 040 1057	. . .	5.1	2.51000E+01	6.67414E-01
76 047 0915	. . .	8.4	2.39000E+01	1.04672E+00
76 054 1055	. . .	6.1	2.63000E+01	8.36444E-01
76 061 1040	. . .	23.6	1.76000E+01	2.16559E+00
76 068 1100	. . .	.	1.49000E+01	.
76 075 1115	. . .	.	2.63000E+01	.
76 082 1110	. . .	.	1.96000E+01	.
76 089 1110	. . .	.	1.96000E+01	.
76 096 1105	. . .	.	2.75000E+01	.
76 103 1052	. . .	.	1.67000E+01	.
76 110 1110	. . .	.	1.32000E+01	.
76 117 1010	. . .	.	9.54000E+00	.
76 124 1040	. . .	.	1.49000E+01	.
76 131 1008	. . .	.	6.56000E+00	.
76 138 1010	. . .	.	7.67000E+00	.
76 145 1005	. . .	.	2.78000E+00	.
76 153 1020	. . .	.	7.67000E+00	.
76 159 1035	. . .	.	2.19000E+00	.
76 166 1010	. . .	.	4.92000E+01	.
76 173 1035	. . .	.	1.46000E+00	.
76 194 1022	. . .	10.2	7.47000E+01	3.97258E+00
76 201 1010	. . .	.	7.47000E+01	.
76 222 1030	. . .	.	1.67000E+01	.
76 229 1100	. . .	.	1.32000E+01	.
76 264 1025	. . .	.	3.88000E+01	.
76 278 1105	. . .	4.2	8.89000E+00	1.94672E-01
76 286 1140	. . .	.	1.02000E+01	.
76 292 1100	. . .	.	5.55000E+00	.
76 300 1145	. . .	.	9.16000E+01	.
76 306 1150	. . .	.	2.88000E+01	.
76 313 1153	. . .	.	1.17000E+01	.
76 320 1125	. . .	.	9.54000E+00	.
76 327 1145	. . .	.	7.67000E+00	.
76 334 1320	. . .	.	2.39000E+01	.
WINTER 1976		16.6	3.55800E+02	1.41459E+01

WEIR 102 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
SPRING 1976		23.6	2.04520E+02	2.16559E+00
SUMMER 1976		10.2	2.39820E+02	3.97258E+00
FALL 1976		4.2	2.36650E+02	1.94672E-01
TOTAL 1976		14.2	1.01152E+03	1.83131E+01

WEIR 103 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
74 336 1120	. . .	.	1.32000E+01	.
74 343 1130	. . .	.	8.89000E+00	.
74 350 1245	. . .	.	1.67000E+02	.
74 364 1040	. . .	.	4.65000E+00	.
75 006 1200	. . .	2.0	4.23000E+00	3.33596E-02
75 013 1200	. . .	.	4.51000E+01	.
75 027 1155	. . .	.	1.76000E+01	.
75 034 1400	. . .	.	1.32000E+01	.
75 041 1455	. . .	.	2.17000E+01	.
75 049 1600	. . .	.	2.17000E+01	.
75 055 1425	. . .	.	2.63000E+01	.
75 062 1420	. . .	.	1.40000E+01	.
75 069 1355	. . .	.	1.24000E+01	.
75 076 1600	. . .	.	7.47000E+01	.
75 083 1545	. . .	.	7.93000E+01	.
75 090 1350	. . .	.	3.71000E+01	.
75 097 1540	. . .	.	2.75000E+01	.
75 104 1540	. . .	.	2.06000E+01	.
75 111 1555	. . .	.	1.96000E+01	.
75 118 1540	. . .	.	3.14000E+01	.
75 125 1615	. . .	.	5.39000E+01	.
75 132 1610	. . .	.	2.88000E+01	.
75 139 1515	. . .	.	2.63000E+01	.
75 147 1435	. . .	.	1.58000E+01	.
75 153 1705	. . .	.	1.58000E+01	.
75 160 1540	. . .	.	6.05000E+00	.
75 167 1505	. . .	.	3.28000E+01	.
75 174 1245	. . .	.	2.78000E+00	.
75 181 .	. . .	.	2.78000E+00	.
75 195 1600	. . .	.	2.02000E+02	.
75 202 1515	. . .	.	3.86000E+01	.
75 209 1400	. . .	.	6.56000E+00	.
75 216 .	. . .	.	1.69000E+00	.
75 223 1450	. . .	.	2.48000E+00	.
75 230 1530	. . .	.	2.28000E+01	.
75 239 1040	. . .	.	7.67000E+00	.
75 244 1220	. . .	.	2.51000E+01	.
75 251 1415	. . .	.	2.48000E+00	.
75 258 1500	. . .	.	1.26000E+00	.
75 265 1500	. . .	.	4.65000E+00	.
75 272 1445	. . .	.	4.68000E+01	.
75 280 1220	. . .	21.0	1.67000E+01	1.38289E+00
75 287 1235	. . .	17.0	2.06000E+01	1.38091E+00
75 293 1215	. . .	20.7	2.75000E+01	2.24468E+00
75 301 1240	. . .	32.6	2.06000E+01	2.64811E+00
75 307 1335	. . .	27.6	1.96000E+01	2.13312E+00
75 314 1605	. . .	22.0	2.39000E+01	2.07334E+00

WEIR 103 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 322 1315	. . .	27.2	2.51000E+01	2.69211E+00
75 328 1600	. . .	.	2.17000E+01	.
75 335 1555	. . .	.	2.51000E+01	.
WINTER 1975		2.0	3.57570E+02	3.33596E-02
SPRING 1975		.	4.57200E+02	.
SUMMER 1975		.	3.67110E+02	.
FALL 1975		24.0	2.81090E+02	1.45552E+01
TOTAL 1975		21.3	1.40807E+03	1.45885E+01

WEIR 103 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1555	. . .	.	2.51000E+01	.
75 342 1430	. . .	.	2.06000E+01	.
75 349 1535	. . .	.	2.06000E+01	.
75 356 1210	. . .	21.3	1.58000E+01	1.32705E+00
75 363 1330	. . .	.	2.39000E+01	.
76 005 1500	. . .	.	5.39000E+01	.
76 012 1500	. . .	3.2	4.68000E+01	5.90536E-01
76 019 1430	. . .	.	2.75000E+01	.
76 026 1525	. . .	14.1	6.59000E+01	3.66400E+00
76 033 1525	. . .	.	8.17000E+01	.
76 040 1605	. . .	.	4.18000E+01	.
76 047 1115	. . .	.	3.56000E+01	.
76 054 1510	. . .	.	3.56000E+01	.
76 061 1400	. . .	.	3.01000E+01	.
76 068 1420	. . .	.	2.51000E+01	.
76 075 1545	. . .	.	3.86000E+01	.
76 082 1510	. . .	.	3.14000E+01	.
76 089 1410	. . .	.	3.01000E+01	.
76 096 1505	. . .	.	3.86000E+01	.
76 103 1435	. . .	.	2.63000E+01	.
76 110 1440	. . .	.	2.28000E+01	.
76 117 1515	. . .	.	1.67000E+01	.
76 124 1525	. . .	.	2.06000E+01	.
76 131 1450	. . .	.	9.54000E+00	.
76 138 1500	. . .	.	1.24000E+01	.
76 145 1430	. . .	.	5.09000E+00	.
76 153 1500	. . .	.	1.32000E+01	.
76 159 1455	. . .	.	3.83000E+00	.
76 166 1530	. . .	.	8.99000E+01	.
76 173 1537	. . .	.	2.19000E+00	.
76 194 1430	. . .	14.8	0.00000E+00	0.00000E+00
76 201 1500	. . .	.	1.93000E+00	.
76 222 1445	. . .	64.1	2.51000E+01	6.34428E+00
76 229 1500	. . .	.	1.17000E+01	.
76 278 1520	. . .	.	7.67000E+00	.
76 286 1506	. . .	.	9.54000E+00	.
76 292 1445	. . .	.	6.05000E+00	.
76 300 1450	. . .	.	6.59000E+01	.
76 306 1630	. . .	.	3.01000E+01	.
76 313 1620	. . .	.	1.67000E+01	.
76 320 1455	. . .	.	1.24000E+01	.
76 327 1530	. . .	.	9.54000E+00	.
76 334 1700	. . .	.	3.01000E+01	.
WINTER 1976		12.9	5.24900E+02	5.58159E+00
SPRING 1976			3.20530E+02	

WEIR 103 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
SUMMER 1976		39.4	1.47850E+02	6.34428E+00
FALL 1976		.	1.88000E+02	.
TOTAL 1976		23.5	1.13798E+03	1.19259E+01

WEIR 105 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 006 1535	. . .	.	7.47000E+01	.
75 013 1500	. . .	.	2.17000E+01	.
75 027 1320	. . .	.	3.83000E+00	.
75 034 1035	. . .	1.6	2.48000E+00	1.05813E-01
75 041 1130	. . .	.	3.46000E+00	.
75 049 1100	. . .	.	3.83000E+00	.
75 055 1100	. . .	.	4.23000E+00	.
75 062 1120	. . .	.	2.19000E+00	.
75 069 1050	. . .	25.3	2.19000E+00	1.47752E+00
75 076 1150	. . .	.	1.49000E+01	.
75 083 1220	. . .	.	1.76000E+01	.
75 090 1110	. . .	.	5.55000E+00	.
75 097 1110	. . .	.	3.46000E+00	.
75 104 1105	. . .	5.4	2.48000E+00	3.57120E-01
75 111 1050	. . .	2.1	2.48000E+00	1.38880E-01
75 118 1100	. . .	.	4.23000E+00	.
75 125 1130	. . .	.	8.89000E+00	.
75 132 1040	. . .	.	3.83000E+00	.
75 139 1040	. . .	.	3.83000E+00	.
75 147 1035	. . .	10.1	1.93000E+00	5.19813E-01
75 153 1030	. . .	.	2.19000E+00	.
75 160 1030	. . .	19.8	4.92000E+01	2.59776E+01
75 167 1010	. . .	14.0	3.88000E+01	1.44853E+01
75 174 1040	. . .	.	1.91000E+02	.
75 181 .	. . .	41.1	3.92000E+02	4.29632E+02
75 188 0945	. . .	32.2	1.91000E+02	1.64005E+02
75 195 1040	. . .	.	6.18000E+01	.
75 202 1030	. . .	.	9.54000E+00	.
75 209 1100	. . .	14.7	8.99000E+01	3.52408E+01
75 216 1005	. . .	.	7.47000E+01	.
75 223 1040	. . .	38.6	2.98000E+01	3.06741E+01
75 230 1120	. . .	.	1.46000E+00	.
75 237 0956	. . .	.	4.92000E+01	.
75 244 0940	. . .	.	5.55000E+00	.
75 251 1015	. . .	.	1.07000E+00	.
75 258 1045	. . .	33.3	6.12000E+01	5.43456E+01
75 265 1040	. . .	28.2	4.92000E+01	3.69984E+01
75 272 1030	. . .	.	7.10000E+00	.
75 280 0840	. . .	26.7	2.48000E+00	1.76576E+00
75 287 0850	. . .	.	3.11000E+00	.
75 293 0850	. . .	.	7.67000E+00	.
75 301 0955	. . .	25.6	3.11000E+00	2.12309E+00
75 307 0840	. . .	44.1	2.48000E+00	2.91648E+00
75 314 1240	. . .	24.7	3.11000E+00	2.04845E+00
75 321 1145	. . .	.	3.46000E+00	.
75 328 1035	. . .	19.4	2.48000E+00	1.28299E+00
75 335 1040	. . .	28.1	3.46000E+00	2.59269E+00

WEIR 105 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
WINTER 1975		1.6	1.16420E+02	1.05813E-01
SPRING 1975		10.7	7.57500E+01	2.49333E+00
SUMMER 1975		26.7	1.18614E+03	7.00015E+02
FALL 1975		28.8	1.55480E+02	1.04073E+02
TOTAL 1975		22.9	1.52386E+03	8.06688E+02

WEIR 105 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1040	. . .	28.1	3.46000E+00	2.59269E+00
75 342 1000	. . .	15.2	1.93000E+00	7.82293E-01
75 349 1010	. . .	14.9	1.93000E+00	7.66853E-01
75 356 0915	. . .	27.6	1.26000E+00	9.27360E-01
75 363 1010	. . .	24.5	3.11000E+00	2.03187E+00
76 005 0930	. . .	.	7.67000E+00	.
76 012 0900	. . .	.	7.10000E+00	.
76 019 1030	. . .	15.3	2.19000E+00	8.93520E-01
76 026 1255	. . .	11.7	8.89000E+00	2.77368E+00
76 033 1055	. . .	.	1.58000E+01	.
76 040 0913	. . .	.	5.09000E+00	.
76 047 0757	. . .	13.1	4.65000E+00	1.62440E+00
76 054 0920	. . .	11.7	4.65000E+00	1.45080E+00
76 061 0910	. . .	.	3.46000E+00	.
76 068 0940	. . .	.	2.78000E+00	.
76 075 0948	. . .	.	5.08000E+00	.
76 082 0940	. . .	.	3.46000E+00	.
76 089 0955	. . .	.	3.46000E+00	.
76 096 0945	. . .	.	5.09000E+00	.
76 103 0940	. . .	.	2.78000E+00	.
76 110 0940	. . .	.	2.48000E+00	.
76 117 0850	. . .	.	1.69000E+00	.
76 124 0915	. . .	.	2.19000E+00	.
76 131 0845	. . .	.	7.47000E+01	.
76 138 0845	. . .	.	8.99000E+01	.
76 145 0845	. . .	.	3.88000E+01	.
76 153 0855	. . .	.	8.99000E+01	.
76 159 0934	. . .	.	2.22000E+01	.
76 166 0834	. . .	.	1.91000E+02	.
76 173 0930	. . .	.	2.20000E+01	.
76 180 0935	. . .	.	1.91000E+02	.
76 188 0830	. . .	31.2	6.94000E+03	5.77408E+03
76 194 0855	. . .	.	1.08000E+01	.
76 201 0845	. . .	.	1.91000E+02	.
76 208 0840	. . .	.	6.94000E+03	.
76 215 0932	. . .	.	1.91000E+02	.
76 222 0905	. . .	.	7.67000E+00	.
76 229 0930	. . .	.	2.78000E+00	.
76 236 0905	. . .	.	1.91000E+02	.
76 243 0918	. . .	.	1.91000E+02	.
76 251 0900	. . .	.	6.94000E+03	.
76 257 0904	. . .	.	6.94000E+03	.
76 257 0904	. . .	.	.	.
76 257 0904	. . .	.	.	.
76 264 0900	. . .	.	1.91000E+02	.
76 271 0920	. . .	.	6.94000E+03	.
76 271 0920	. . .	.	.	.

WEIR 105 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
76 278 0924	. . .	.	8.99000E+01	.
76 286 0940	. . .	.	1.26000E+00	.
76 292 0930	. . .	.	8.99000E+01	.
76 300 0930	. . .	.	1.86000E+01	.
76 306 1000	. . .	.	6.56000E+00	.
76 313 1015	. . .	.	2.19000E+00	.
76 320 0950	. . .	.	1.69000E+00	.
76 327 1005	. . .	.	1.07000E+00	.
76 334 1130	. . .	9.0	4.65000E+00	1.11600E+00
WINTER 1976		18.0	7.11900E+01	1.38435E+01
SPRING 1976		.	3.25770E+02	.
SUMMER 1976		31.2	1.51813E+04	5.77408E+03
FALL 1976		9.0	2.14178E+04	1.11600E+00
TOTAL 1976		18.4	3.67118E+04	5.78904E+03

WEIR 106 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 006 1605	. . .	.	1.26000E+00	.
75 013 1520	. . .	.	4.18000E+01	.
75 027 1340	. . .	.	8.89000E+00	.
75 034 1050	. . .	.	6.05000E+00	.
75 041 1145	. . .	.	8.27000E+00	.
75 049 1120	. . .	.	1.32000E+01	.
75 055 1120	. . .	.	8.89000E+00	.
75 062 1135	. . .	.	5.09000E+00	.
75 069 1120	. . .	29.6	4.23000E+00	1.31383E+00
75 076 1205	. . .	.	2.88000E+01	.
75 083 1240	. . .	.	3.14000E+01	.
75 090 1130	. . .	.	1.24000E+01	.
75 097 1125	. . .	.	8.27000E+00	.
75 104 1125	. . .	.	8.27000E+00	.
75 111 1105	. . .	.	1.09000E+01	.
75 118 1110	. . .	.	1.58000E+01	.
75 125 1150	. . .	.	2.19000E+00	.
75 132 1055	. . .	.	8.89000E+00	.
75 139 1100	. . .	.	8.89000E+00	.
75 147 1055	. . .	13.7	5.09000E+00	7.31721E-01
75 153 1045	. . .	.	5.55000E+00	.
75 160 1055	. . .	.	5.09000E+00	.
75 167 1030	. . .	.	4.65000E+00	.
75 174 1020	. . .	.	3.11000E+00	.
75 181 .	. . .	36.3	3.11000E+00	1.18461E+00
75 188 1015	. . .	68.5	1.46000E+00	1.04942E+00
75 195 1050	. . .	.	1.26000E+02	.
75 202 .	. . .	.	1.86000E+01	.
75 209 1145	. . .	.	2.19000E+00	.
75 216 1020	. . .	.	1.07000E+00	.
75 223 1055	. . .	.	1.07000E+00	.
75 230 1130	. . .	.	4.23000E+00	.
75 237 1013	. . .	.	1.07000E+00	.
75 244 0930	. . .	.	1.24000E+01	.
75 251 1040	. . .	.	2.78000E+00	.
75 258 1100	. . .	11.6	6.12000E+01	7.44932E+00
75 265 1100	. . .	.	1.69000E+00	.
75 272 1040	. . .	.	1.49000E+01	.
75 280 0850	. . .	.	6.56000E+00	.
75 287 0855	. . .	22.4	8.27000E+00	1.94384E+00
75 293 0900	. . .	.	1.40000E+01	.
75 301 1005	. . .	.	8.27000E+00	.
75 307 0850	. . .	.	7.10000E+00	.
75 314 1250	. . .	.	8.27000E+00	.
75 321 1155	. . .	.	8.89000E+00	.
75 328 1040	. . .	.	6.56000E+00	.
75 335 1055	. . .	.	8.89000E+00	.

WEIR 106 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
WINTER 1975		.	9.34500E+01	.
SPRING 1975		21.6	1.55770E+02	2.04555E+00
SUMMER 1975		52.4	1.89600E+02	2.23403E+00
FALL 1975		17.0	1.69780E+02	9.39316E+00
TOTAL 1975		30.3	5.85560E+02	1.36727E+01

WEIR 106 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1055	. . .	.	8.89000E+00	.
75 342 1010	. . .	.	6.05000E+00	.
75 349 1105	. . .	.	6.05000E+00	.
75 356 0925	. . .	.	4.23000E+00	.
75 363 1015	. . .	16.4	7.67000E+00	1.31992E+00
76 005 1040	. . .	.	1.58000E+01	.
76 012 0915	. . .	.	1.40000E+01	.
76 019 1035	. . .	14.7	7.10000E+00	1.09517E+00
76 026 1013	. . .	21.5	7.67000E+00	1.73038E+00
76 033 1545	. . .	.	3.01000E+01	.
76 040 0932	. . .	6.7	1.17000E+01	8.22560E-01
76 047 0810	. . .	8.9	1.17000E+01	1.09265E+00
76 054 0935	. . .	8.0	1.09000E+01	9.15005E-01
76 061 0925	. . .	8.4	8.27000E+00	7.28940E-01
76 068 1000	. . .	23.2	7.67000E+00	1.86720E+00
76 075 1015	. . .	.	1.09000E+01	.
76 082 0950	. . .	6.2	8.27000E+00	5.38027E-01
76 089 1015	. . .	13.7	8.27000E+00	1.18887E+00
76 096 1000	. . .	.	1.17000E+01	.
76 103 0957	. . .	25.6	6.56000E+00	1.76218E+00
76 110 0955	. . .	25.5	6.05000E+00	1.61884E+00
76 117 0905	. . .	13.6	4.65000E+00	6.63589E-01
76 124 0937	. . .	.	6.05000E+00	.
76 131 0910	. . .	.	2.48000E+00	.
76 138 0905	. . .	.	3.11000E+00	.
76 145 0905	. . .	.	1.07000E+00	.
76 153 0920	. . .	.	3.11000E+00	.
76 159 0852	. . .	.	8.99000E+01	.
76 166 0850	. . .	.	1.08000E+01	.
76 173 0950	. . .	35.1	7.47000E+01	2.75128E+01
76 180 1000	. . .	140.7	6.94000E+03	1.02461E+04
76 188 0900	. . .	.	1.23000E+03	.
76 194 0906	. . .	21.8	6.12000E+01	1.39996E+01
76 201 0925	. . .	23.1	2.98000E+01	7.22329E+00
76 208 0950	. . .	401.6	1.23000E+03	5.18329E+03
76 215 0950	. . .	161.2	3.92000E+02	6.63068E+02
76 222 0930	. . .	.	1.67000E+01	.
76 229 1000	. . .	.	8.89000E+00	.
76 236 0933	. . .	.	1.59000E+01	.
76 243 0940	. . .	.	3.92000E+02	.
76 251 0945	. . .	10.8	1.23000E+03	1.39391E+02
76 264 0915	. . .	18.8	1.23000E+03	2.42644E+02
76 278 0945	. . .	.	1.26000E+00	.

WEIR 106 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
76 313 1040	. . .	.	3.83000E+00	.
76 320 1017	. . .	15.6	3.11000E+00	5.09087E-01
76 327 1030	. . .	.	2.48000E+00	.
WINTER 1976		12.1	1.50130E+02	7.70463E+00
SPRING 1976		16.6	8.81600E+01	8.36764E+00
SUMMER 1976		130.6	1.04950E+04	1.61412E+04
FALL 1976		14.7	2.92175E+03	3.89194E+02
TOTAL 1976		43.7	1.32517E+04	1.65458E+04

WEIR 107 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
74 336 1500	. . .	.	1.46000E+00	.
74 343 1400	. . .	144.4	2.19000E+00	1.12140E+01
74 350 1610	. . .	.	1.02000E+01	.
74 364 1330	. . .	4.0	7.47000E+01	1.05957E+01
75 006 1000	. . .	1.3	7.47000E+01	3.44362E+00
75 013 1600	. . .	.	3.11000E+00	.
75 027 1020	. . .	.	3.46000E+00	.
75 034 0955	. . .	0.1	6.56000E+00	2.32624E-02
75 041 1030	. . .	.	3.83000E+00	.
75 049 1025	. . .	.	3.46000E+00	.
75 055 1020	. . .	.	4.65000E+00	.
75 062 1040	. . .	.	2.78000E+00	.
75 069 1000	. . .	28.6	2.19000E+00	2.22106E+00
75 076 1045	. . .	.	1.96000E+01	.
75 083 1110	. . .	.	1.09000E+01	.
75 090 1030	. . .	.	5.09000E+00	.
75 097 1025	. . .	.	6.05000E+00	.
75 104 .	. . .	3.1	2.78000E+00	3.05603E-01
75 111 1015	. . .	.	2.78000E+00	.
75 118 1005	. . .	.	3.46000E+00	.
75 125 1045	. . .	.	5.55000E+00	.
75 132 1000	. . .	.	2.48000E+00	.
75 139 0950	. . .	.	3.46000E+00	.
75 147 0950	. . .	3.1	2.78000E+00	3.05603E-01
75 153 0945	. . .	.	2.48000E+00	.
75 160 0940	. . .	7.3	1.23000E+03	3.18404E+02
75 167 0935	. . .	3.9	1.07000E+00	1.47979E-01
75 174 1107	. . .	.	8.99000E+01	.
75 181 .	. . .	8.0	7.47000E+01	2.11915E+01
75 188 0910	. . .	37.0	2.22000E+01	2.91277E+01
75 195 0955	. . .	.	4.02000E+01	.
75 202 1000	. . .	.	7.67000E+00	.
75 209 1015	. . .	.	1.46000E+00	.
75 216 .	. . .	21.9	8.99000E+01	6.98160E+01
75 223 1000	. . .	5.6	8.99000E+01	1.78525E+01
75 230 1045	. . .	.	1.26000E+00	.
75 237 0908	. . .	.	6.12000E+01	.
75 244 0855	. . .	.	2.19000E+00	.
75 251 0935	. . .	.	1.07000E+00	.
75 258 0935	. . .	.	4.92000E+01	.
75 265 1015	. . .	15.2	5.19000E+01	2.79745E+01

WEIR 107 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

75 272 0950	.	.	.	.	.	.
75 280 0800	.	.	.	36.7	.	.
75 287 0800	.	.	.	18.5	.	.
75 293 0805	.	.	.	11.9	.	.
75 301 0920	.	.	.	30.5	.	.
75 307 0800	.	.	.	49.3	.	.
75 314 1155	.	.	.	23.1	.	.
75 321 0900	.	.	.	23.1	.	.
75 328 0950	.	.	.	27.1	.	.
75 335 1010	.	.	.	5.6	.	.
WINTER 1975				37.4	1.91100E+02	2.52767E+01
SPRING 1975				11.6	7.23800E+01	2.83227E+00
SUMMER 1975				13.9	1.71413E+03	4.56540E+02
FALL 1975				24.1	1.04360E+02	2.79745E+01
TOTAL 1975				22.1	2.07452E+03	5.12623E+02

WEIR 107 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1010	. . .	5.6	.	.
75 342 0930	. . .	3.6	.	.
75 349 0945	. . .	3.5	.	.
75 356 0845	. . .	17.5	.	.
75 363 0935	. . .	16.0	.	.
76 005 0800	. . .	18.3	.	.
76 012 1030	. . .	.	.	.
76 019 0930	. . .	158.2	.	.
76 026 0915	. . .	9.9	.	.
76 033 1015	. . .	21.5	.	.
76 040 1015	. . .	2.7	.	.
76 047 1215	. . .	4.4	.	.
76 054 0850	. . .	3.9	.	.
76 061 0845	. . .	21.9	.	.
76 068 0915	. . .	21.9	.	.
76 075 0915	. . .	26.0	.	.
76 082 0915	. . .	30.2	.	.
76 089 0915	. . .	35.1	.	.
76 096 0900	. . .	43.0	.	.
76 103 0910	. . .	30.7	.	.
76 110 0905	. . .	30.1	.	.
76 117 0830	. . .	22.8	.	.
76 124 0845	. . .	21.8	.	.
76 131 0800	. . .	11.6	.	.
76 138 0810	. . .	28.1	.	.
76 145 0815	. . .	159.3	.	.
76 153 1630	. . .	109.6	.	.
76 159 0810	. . .	.	8.99000E+01	.
76 166 0750	. . .	.	4.92000E+01	.
76 173 0850	. . .	.	8.99000E+01	.
76 180 0840	. . .	.	3.88000E+01	.
76 188 0750	. . .	.	2.22000E+01	.
76 188 0750	. . .	.	.	.
76 194 0800	. . .	.	4.92000E+01	.
76 201 0806	. . .	.	3.88000E+01	.
76 208 0805	. . .	.	1.08000E+01	.
76 222 0820	. . .	.	2.78000E+00	.
76 229 0850	. . .	.	2.19000E+00	.
76 236 0812	. . .	.	2.24000E+01	.
76 243 0840	. . .	.	2.27000E+02	.
76 278 0840	. . .	.	7.47000E+01	.
76 286 0900	. . .	.	1.07000E+00	.
76 292 0840	. . .	.	8.99000E+01	.
76 300 0900	. . .	.	8.27000E+00	.
76 306 0930	. . .	.	2.78000E+00	.
76 313 0940	. . .	.	1.26000E+00	.
76 320 0910	. . .	.	1.07000E+00	.

WEIR 107 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
76 327 0930	. . .	.	8.99000E+01	.
76 334 1040	. . .	.	4.92000E+01	.
WINTER 1976		22.1	.	.
SPRING 1976		42.3	.	.
SUMMER 1976		109.6	6.43170E+02	.
FALL 1976		.	5.45150E+02	.
TOTAL 1976		33.0	9.61320E+02	.

WEIR 108 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
74 336 1200	. . .	.	1.67000E+01	.
74 343 1220	. . .	.	1.02000E+01	.
74 350 1325	. . .	.	3.21000E+02	.
74 364 1110	. . .	.	4.23000E+00	.
75 006 1315	. . .	.	3.46000E+00	.
75 013 1245	. . .	.	4.68000E+01	.
75 027 1240	. . .	.	1.24000E+01	.
75 034 1340	. . .	.	1.02000E+01	.
75 041 1340	. . .	.	1.32000E+01	.
75 049 1455	. . .	.	1.40000E+01	.
75 055 1345	. . .	.	1.49000E+01	.
75 062 1340	. . .	.	1.02000E+01	.
75 069 1230	. . .	.	8.89000E+00	.
75 076 1445	. . .	.	4.02000E+01	.
75 083 1500	. . .	.	3.56000E+01	.
75 090 1405	. . .	.	2.06000E+01	.
75 097 1510	. . .	.	1.58000E+01	.
75 104 1525	. . .	.	1.32000E+01	.
75 111 1530	. . .	.	1.24000E+01	.
75 118 1500	. . .	.	1.67000E+01	.
75 125 1545	. . .	.	3.14000E+01	.
75 132 1545	. . .	.	1.86000E+01	.
75 139 1440	. . .	.	1.57000E+01	.
75 167 1415	. . .	.	1.09000E+01	.
75 153 1030	. . .	.	1.17000E+01	.
75 160 1510	. . .	.	6.05000E+00	.
75 167 1400	. . .	.	5.55000E+00	.
75 174 1300	. . .	.	2.48000E+00	.
75 181 .	. . .	.	1.69000E+00	.
75 188 1230	. . .	.	8.99000E+01	.
75 195 1515	. . .	.	1.08000E+02	.
75 202 1440	. . .	.	3.14000E+01	.
75 209 1330	. . .	.	7.10000E+00	.
75 216 .	. . .	.	2.48000E+00	.
75 223 1400	. . .	.	2.78000E+00	.
75 230 1515	. . .	.	6.05000E+00	.
75 237 1345	. . .	.	1.69000E+00	.
75 244 1155	. . .	.	2.06000E+01	.
75 251 1325	. . .	.	7.10000E+00	.
75 258 1445	. . .	.	1.07000E+00	.
75 265 1440	. . .	.	3.11000E+00	.
75 272 1415	. . .	.	3.14000E+01	.
75 280 1150	. . .	.	1.40000E+01	.
75 287 1220	. . .	.	1.86000E+01	.
75 293 1145	. . .	.	2.51000E+01	.
75 301 1210	. . .	.	1.67000E+01	.
75 307 1320	. . .	.	1.49000E+01	.

WEIR 108 1975 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 314 1545	. . .	.	1.58000E+01	.
75 322 1255	. . .	.	1.67000E+01	.
75 328 1540	. . .	.	1.49000E+01	.
75 335 1520	. . .	.	1.86000E+01	.
WINTER 1975		.	4.77290E+02	.
SPRING 1975		.	2.50990E+02	.
SUMMER 1975		.	3.08370E+02	.
FALL 1975		.	2.18580E+02	.
TOTAL 1975		.	1.21273E+03	.

WEIR 108 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
75 335 1520	. . .	.	1.86000E+01	.
75 342 1400	. . .	.	1.40000E+01	.
75 349 1515	. . .	.	1.24000E+01	.
75 356 1130	. . .	.	1.02000E+01	.
75 363 1300	. . .	.	1.40000E+01	.
76 005 1430	. . .	.	3.71000E+01	.
76 012 1415	. . .	8.7	3.28000E+01	1.89734E+00
76 019 1400	. . .	.	3.01000E+01	.
76 026 1500	. . .	70.8	4.34000E+01	2.04303E+01
76 033 1450	. . .	.	7.93000E+01	.
76 040 1515	. . .	.	2.63000E+01	.
76 047 1125	. . .	.	2.28000E+01	.
76 054 1430	. . .	.	2.06000E+01	.
76 061 1325	. . .	.	1.67000E+01	.
76 068 1340	. . .	.	1.49000E+01	.
76 075 1305	. . .	.	1.96000E+01	.
76 082 1445	. . .	.	1.58000E+01	.
76 089 1315	. . .	.	1.58000E+01	.
76 096 1415	. . .	.	1.86000E+01	.
76 103 1318	. . .	35.8	1.40000E+01	3.33245E+00
76 110 1340	. . .	.	1.17000E+01	.
76 117 1307	. . .	.	9.54000E+00	.
76 124 1330	. . .	.	1.02000E+01	.
76 131 1235	. . .	.	5.55000E+00	.
76 138 1340	. . .	.	8.89000E+00	.
76 145 1310	. . .	.	3.11000E+00	.
76 153 1320	. . .	.	6.05000E+00	.
76 159 1345	. . .	.	1.46000E+00	.
76 166 1345	. . .	.	1.59000E+01	.
76 173 1425	. . .	6.5	2.78000E+00	1.20146E-01
76 194 1308	. . .	.	1.93000E+00	.
76 201 1300	. . .	.	3.88000E+01	.
76 222 1305	. . .	.	2.51000E+01	.
76 229 1325	. . .	.	7.67000E+00	.
76 243 1255	. . .	.	3.92000E+02	.
76 278 1340	. . .	.	3.83000E+00	.
76 286 1350	. . .	.	4.23000E+00	.
76 292 1320	. . .	.	3.46000E+00	.
76 300 1300	. . .	.	3.86000E+01	.
76 306 1505	. . .	.	1.58000E+01	.
76 313 1455	. . .	.	7.10000E+00	.
76 320 1335	. . .	.	7.10000E+00	.
76 327 1400	. . .	.	5.55000E+00	.
76 334 1555	. . .	.	2.06000E+01	.
WINTER 1976		39.7	3.78300E+02	2.23277E+01

WEIR 108 1976 MINERAL SUSPENDED SOLIDS
SPOT SAMPLES

FROM	TO	CONCENTRATION (MG/L)	FLOW RATE (L/SEC)	AREA YIELD (MG/HA-SEC)
SPRING 1976		35.8	1.70440E+02	3.33245E+00
SUMMER 1976		6.5	4.91690E+02	1.20146E-01
FALL 1976		.	4.98270E+02	.
TOTAL 1976		30.4	1.12395E+03	2.57803E+01